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**Atlas of Wide-Field-of-View
Outgoing Longwave Radiation
Derived From Nimbus 7 Earth
Radiation Budget Data Set—
November 1978 to October 1985**

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Introduction

One important aspect of climate processes of the Earth is an understanding of the radiative exchange between the Earth, the Sun, and the atmosphere. Before the age of satellites, ground-based observations were made to determine the radiation balance. One of the first studies of the radiation balance of the Earth was done by Simpson (1928). London (1957) made one of the most comprehensive studies of the radiation balance before satellites began making measurements.

Measurements from the U.S.'s first satellites were used to study the Earth's radiation budget. The development of the Earth radiation budget observational system evolved from the early 1960's to the present with the overall advancement of rocket and spacecraft technology. An excellent review of the history of satellite missions for measuring the Earth's radiation budget is given by House et al. (1986).

During the period from 1964 through the 1970's, a number of research satellites of the Nimbus series were flown to study experimental concepts in the atmospheric sciences. One of the concepts tested was the Earth radiation budget (ERB) experiment (Smith et al. 1977 and Jacobowitz et al. 1979) which was included in the payloads of the Nimbus 6 and Nimbus 7 satellites. The Nimbus 6 satellite was flown in June 1975, and in November 1978 an ERB instrument was flown aboard the polar orbiting Nimbus 7 satellite. This experiment provided measurements of the radiation entering and exiting the Earth atmosphere system.

For more than 7 years the Nimbus 7 operated in a continuous mode to provide the research scientist with an ongoing record of Earth radiation measurements. This 7-year time series data base is one of the largest continuous records for studying the Earth's radiation balance that is available from satellite data.

The ERB experiment was launched into a nearly circular Sun-synchronous Earth orbit aboard the Nimbus 7 satellite in November 1978 and operated through the spring of 1986. The ERB instrument package flown on the Nimbus 7 satellite included two Earth-viewing wide-field-of-view (WFOV) radiometers, one of which measured total irradiance and the other of which measured shortwave (SW) irradiance. The difference between the two (Total - SW) is the outgoing longwave radiation (OLR). These WFOV radiometers viewed the entire Earth's disk from the Nimbus 7 satellite, which had an altitude of 955 km and Equator crossing times near 12:00 a.m. (noon) and 12:00 p.m. (midnight). The SW channel had a spectral range of 0.2 to 3.8 μm , and the total channel measured the irradiance from 0.2 to 50+ μm . The

first data were taken by Nimbus 7 on November 16, 1978. Nimbus 7 continued to collect usable Earth radiation data through April 1986, providing a continuous 7-year data set.

This paper is an atlas which contains monthly averaged OLR results estimated at the top of the atmosphere (denoted by TOA and defined herein to be an altitude of 30 km) for the 7 years of Nimbus 7 operation spanning the time period from November 1978 to October 1985. A number of researchers have analyzed and published selected results of the WFOV broadband OLR measurements from the Nimbus 7 ERB radiometers. Jacobowitz and Tighe (1984) published a study of the first year of the Nimbus 7 radiation budget data set. Their study included an analysis of OLR results which spanned the time period from November 1978 to October 1979. They made comparisons of the WFOV OLR with the scanning narrow-field-of-view (NFOV) radiometers. Limited simultaneous comparisons were also made between the ERB results and those from the NOAA-7 operational satellite. Kyle, Ardanuy, and Hucek (1986) and Ardanuy and Kyle (1986) published results of a 41-month subset of the OLR data set that included contour maps of OLR and monthly averaged anomaly maps defined in terms of departures from the climatology for the month. The main emphasis of their study was the analysis of the broadband daytime longwave radiation data set with respect to the temporal and spatial evolution of the El Nino/Southern Oscillation anomalies in 1982 and 1983.

The purpose of this atlas is to document all the WFOV OLR results from 7 years of Nimbus 7 operation in a form that allows analysis of the radiation field of the Earth. The measurements have been adjusted with the correction factor from Kyle, Ardanuy, and Hurley (1985). The results contained in this atlas were derived with a deconvolution (i.e., a resolution enhancement) technique which represented the WFOV monthly averaged OLR as an expansion of spherical harmonic coefficients (Smith and Green 1981). Tables of these coefficients along with monthly averaged contour maps of OLR results for 7 years are included.

The results documented in this atlas are important for a number of reasons. One relates to the data, which are both broadband and WFOV data. Because the measurements are broadband, the ERB radiometers offer some significant advantages over the instruments aboard NOAA operational-type polar orbiting satellites, which measure upwelling radiation in the narrow spectral regions (0.5 to 0.7 μm in the visible region and 10.5 to 12.5 μm in the infrared region). Winston et al. (1979) published an atlas which documented 4 years of OLR results from the scanning

radiometer (SR) on the NOAA operational satellites. Janowiak et al. (1985) also published an atlas of OLR results derived from NOAA operational satellite data which covered the time period from June 1974 to November 1983. The primary disadvantage of measurements made by NOAA operational satellites is that measurements are made in narrow spectral regions which must then be empirically corrected to estimate the broadband OLR. Their big advantage is their very high spatial resolution compared with the WFOV radiometer, which is limited to large scales.

The WFOV instrument is also well suited for measuring large-scale features since its field of view is such that the instrument measures all incident radiation from horizon to horizon. Herein lies one of its advantages since the measured radiation is integrated over a broad variation of angles, and thus is less sensitive to directional models than are data measured by narrow-field-of-view radiometers.

In regards to stability of instruments, scanning radiometers and fixed-WFOV radiometers tend to be very stable over time in the infrared region of the spectrum, but they experience degradation in the SW region. However, because of their mechanical simplicity, fixed-WFOV radiometers typically have greater longevity than do scanning radiometers. For instance, the fixed-WFOV radiometer on Nimbus 6 operated uninterrupted for 3 years, and the Nimbus 7 fixed-WFOV radiometer has been operational for over 7 years.

In addition to the data being broadband and WFOV, the method of representing the data using spherical harmonics is important. The spherical harmonic coefficient data set for each month represents a condensation of the OLR field. Some of these coefficients have a physical interpretation attached to them. These coefficients may be analyzed individually or in combination to study different aspects of the radiation field. The results from Nimbus 7 also represent the continuation of a long-term time series of OLR for the ERB WFOV-type instruments that began with 3 years of data from Nimbus 6 (Bess and Smith 1987). Thus, the 3-year data base from Nimbus 6 plus the 7-year data base from Nimbus 7 give a time series of OLR results covering 10 years. This time series data will be very valuable for doing monthly, annual, and interannual studies of OLR. The authors are grateful to H. L. Kyle of the NASA Goddard Space Flight Center and H. Jacobowitz of NOAA for providing the Nimbus 7 data tapes which made this research possible. Also, many thanks to T. P. Charlock, J. J. Buglia, and W. F. Staylor for their many suggestions and to M. A. Woerner for her programming help along the way.

Data Processing and Analysis

The 7 years of ERB WFOV irradiance data from the Nimbus 7 satellite covering the time period from November 1978 to October 1985 were supplied by the Nimbus 7 Project. Only the OLR data are documented in this atlas.

The nominal duty cycle of the ERB radiometer on Nimbus 7 was 3 days on and 1 day off. When the radiometer was turned on, measurements were taken at 4-sec intervals along the orbital track. The data tapes supplied by NOAA contain data reduced by averaging four consecutive measurements, resulting in one averaged value every 16 sec.

Although the Nimbus 7 ERB radiometer was initially constrained to operate on a duty cycle of 3 days on followed by 1 day off, this constraint was relaxed in September 1983 because of the failure of two other experiments, and the ERB radiometer operated without interruption most of the time except in the summer and fall of 1984, when the regular duty cycle of 3 days on and 1 day off was in effect. The sampling strategy of 3 days on and 1 day off normally tends to change the true radiant exitance. However, the absence of a continuous daily data set did not seriously constrain monthly averaged WFOV data since the data were smoothed in the averaging process over 1 month and over the large spatial area of the WFOV radiometer. Green and Smith (1978) looked at the temporal variation over six duty cycles of 2 days each for 1 month of Nimbus 6 data. Their results showed very little change from one duty cycle to another on a global and zonal scale. Small changes occurred for some regions.

The other inherent sampling bias characteristic of all Sun-synchronous polar orbiting satellites is that they measure OLR at only two local times. For Nimbus 7, 12:00 a.m. (noon) and 12:00 p.m. (midnight) were the equator crossing times. Because of this sampling bias, diurnal variations cannot be studied.

These tapes were processed by taking daily measurements and averaging over 1 month and over 5° increments in latitude that formed an igloo-type grid system of near-equal-area regions. The igloo grid system is symmetrical about the Equator and has 3 grids at the polar regions from 85° to 90° latitude and 72 grids at the equatorial region from 0° to 5° latitude. Figure 1 is a sketch of the igloo grid system for the Northern Hemisphere showing the number of grids in each 5° latitude region. The total number of near-equal-area grids is 827. The igloo grid system is symmetrical about the Equator, giving a total of 1654 grids over the Earth.

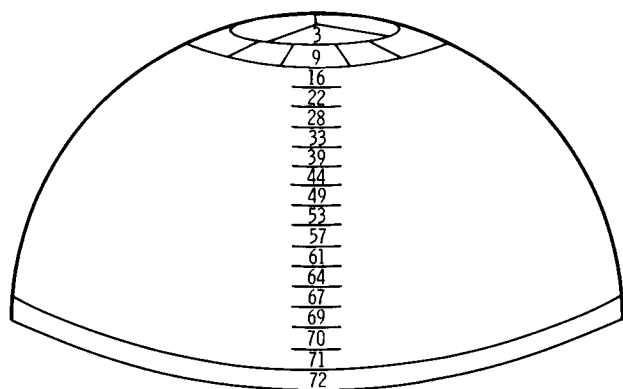


Figure 1. Igloo grid system for near-equal-area grids showing number of grids in each 5° zone for Northern Hemisphere.

Some corrections and editing had to be made to the ERB WFOV measurements before they were suitable for data analysis. Sun contamination is a problem which occurs near sunrise and sunset with the WFOV radiometer because the field of view is larger than the Earth's disk, and hence it views the Sun directly. Measurements were eliminated when the solar zenith angle at the nadir (or subsatellite) point was between 99° and 123°. This was the range of angles used previously by other investigators when analyzing Nimbus 7 ERB WFOV data (Kyle et al. 1984). With the range of solar zenith angles specified by the Nimbus 7 investigators, it was found that another possible source of error in OLR measurements, caused by a thermal transient in SW measurements because of irradiance of the sensor at spacecraft sunset, was eliminated. Other editing had to be performed occasionally because of anomalies in the data that have been well documented (Bess, Green, and Smith 1981).

The first 5 years of archived measurements from Nimbus 7 were adjusted by applying a correction factor (Kyle, Ardanuy, and Hurley 1985) which was based on an improved WFOV calibration algorithm used to produce measurements from years 6 and 7 of the Nimbus 7 data set. The calibration adjustment evolved from what is known as the Pacific adjustment procedure. After the failure of the scanner on Nimbus 7 in June of 1980, the WFOV total channel was used as a comparison standard for the SW channels, and the comparison was made while the radiometer was viewing the central Pacific Ocean. The calibration adjustment is based on the use of global averages as a comparison standard, which corrected some of the shortcomings of the Pacific procedure. The correction factors resulted in a reasonably homogeneous 5-year ERB WFOV data set and increased

the emitted longwave flux by about 8 to 11 W/m². The day and night emitted fluxes were also more consistent with those observed with the ERB NFOV scanner.

After the measurement data were corrected for errors and were time- and space-averaged to obtain regional monthly averages, a deconvolution (resolution enhancement) technique was applied to represent the radiant exitance at the TOA by a truncated series of spherical harmonics. The deconvolution technique takes advantage of the fact that spherical harmonics are the eigenfunctions of the measurements operator and reduces the radiant exitance field from satellite altitude to TOA by dividing by the appropriate eigenvalues. All the results in this atlas are based on this deconvolution technique, which has been well documented (Smith and Green 1981 and Bess, Green, and Smith 1981).

The governing equation from which the monthly spherical harmonic coefficients were produced is

$$M(\theta, \phi, t) = \sum_{n=0}^N \sum_{m=0}^n N_n^m P_n^m(\cos \theta) [C_n^m(t) \cos(m\phi) + S_n^m(t) \sin(m\phi)]$$

where $M(\theta, \phi, t)$ is the measurement at the TOA, θ is colatitude, ϕ is the longitude, t is the time, and P_n^m is the associated Legendre polynomial of degree n and order m . The terms $C_n^m(t)$ and $S_n^m(t)$ are the even and odd real spherical harmonic coefficients, and the normalizing factor is

$$N_n^m = [(2n+1)(n-m)!(2-\delta_0^m)/(n+m)!]^{1/2}$$

where δ_0^m is the Kronecker delta function.

Discussion of Results

Included in this atlas are spherical harmonic coefficients and associated global contour maps of 84 months of Nimbus 7 ERB WFOV outgoing longwave radiation results. It is not the intent in this atlas to do an in-depth analysis of the data but to compile and document the spherical harmonic coefficients and the associated contour maps which can then be used to do many kinds of valuable analysis.

Each table in this atlas contains a set of spherical harmonic coefficients for 1 month of mean values. Results are for a spherical harmonic expansion truncated to 12th degree. For such a 12th-degree expansion, 169 coefficients are required to specify the radiation field. The coefficients above the stair-step line are the 78 sine terms. With the exception of the first column, the coefficients below the stair-step line

are the 78 cosine terms. The first column contains the 13 zonal terms. The sine and cosine terms represent the nonaxisymmetric terms and give a measure of longitudinal variation. The format of the tables makes it very easy to pick off any coefficient. The superscript m is the longitudinal wave number or order and n represents the degree of the spherical harmonic. Thus, in the first column, which represents the zonal terms, m is 0 and n ranges from 0 to 12. Physical interpretations can be associated with some of the zonal terms. Thus, C_0^0 is the global average, C_1^0 is a measure of hemispherical or pole-to-pole difference, and C_2^0 is a measure of Equator-to-pole gradient. It has been shown that over 80 percent of the degree variance is in the zonal terms (Smith and Bess 1983). This variance is because at large scales, Earth-emitted radiation is strongly dependent on latitude.

The monthly averaged spherical harmonic data sets can be used in a variety of ways to study the OLR on regional, zonal, and global scales in the spatial domain and on monthly, annual, and interannual scales in the time domain. One application is to model the global radiation field. The advantage of such models is that they can represent large data sets with relatively few parameters. Another advantage of a spherical harmonic representation is that it provides a mathematical structure that permits one to study separately the latitudinal variations using the zonal coefficients and the longitudinal variations and wave properties using tesseral coefficients. In short, spherical harmonic representation allows the radiation field to be broken into its component parts, which can then be studied separately or in various combinations. For example, the coefficients are well suited for time series analysis, spatial spectra studies, and parameterization studies (Smith and Bess 1983 and Short et al. 1984).

In this atlas each spherical harmonic coefficient set has a companion monthly averaged global contour map of OLR. The OLR less than 240 W/m^2 is shown as dotted contour lines. The contour interval is 10 W/m^2 , and highs and lows are shown. These contour maps give a "quick look" of how the OLR is varying over monthly, annual, and interannual time scales. With their associated sets of harmonic coefficients, they form a valuable data set for studying many different aspects of our changing climate.

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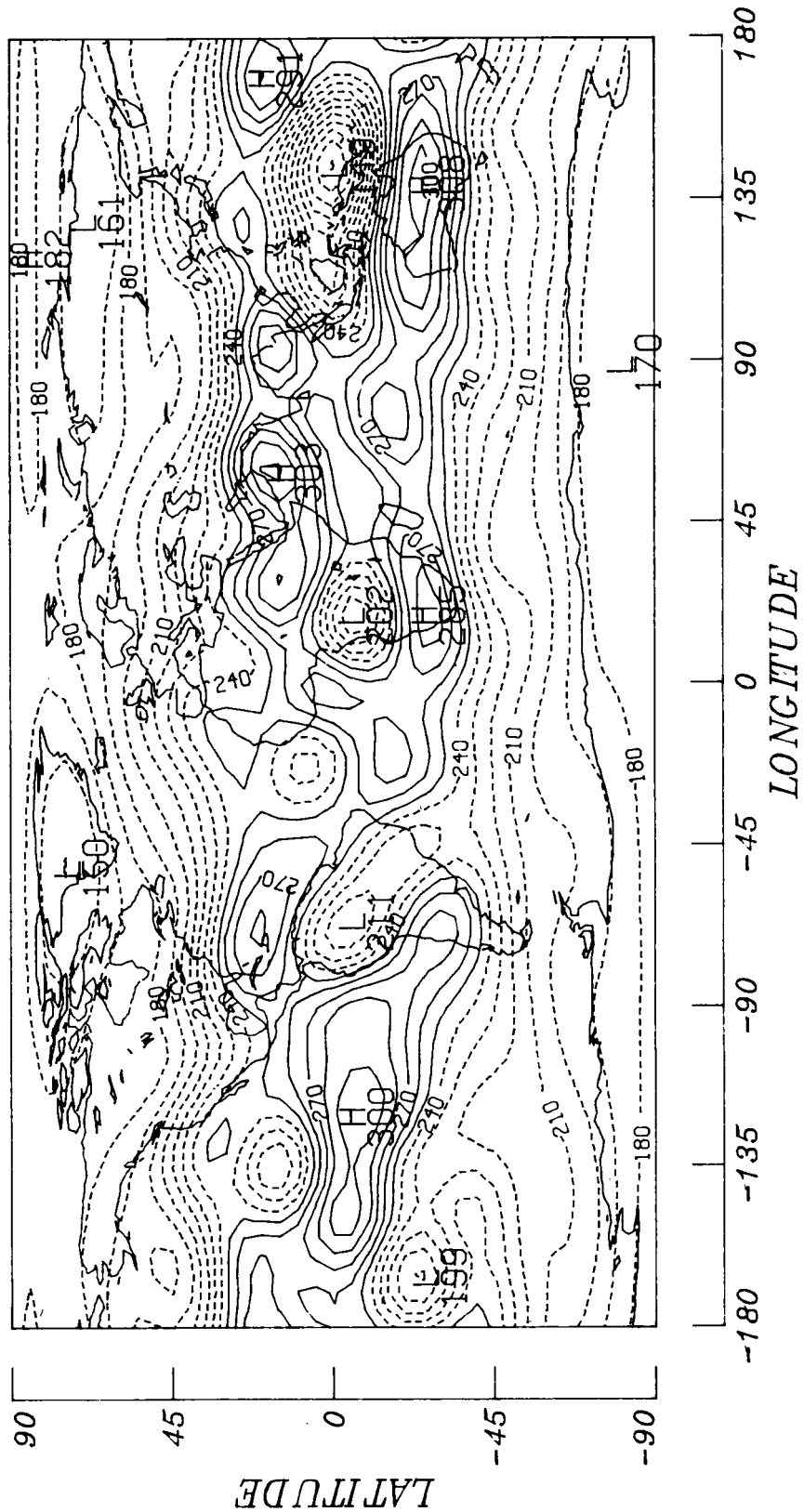
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November 1978

| | | | | | | | | | | | | | m/n |
|---------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| 0 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 12 |
| 232.244 | .207 | -1.083 | -.575 | -.779 | -.344 | .073 | -.002 | -.771 | .636 | 1.781 | -.424 | -.267 | 12 |
| 1 | -6.457 | 1.483 | .360 | -1.247 | .516 | -.389 | .348 | -.532 | .063 | -.168 | -.649 | .218 | 11 |
| 2 | -26.319 | 1.575 | -.946 | -1.858 | -.139 | .734 | .146 | .098 | 1.168 | -.420 | -2.051 | 1.908 | 10 |
| 3 | .196 | -1.635 | 2.731 | -.681 | .880 | .554 | -.240 | -1.179 | -.221 | 1.389 | 2.088 | 1.073 | 9 |
| 4 | -4.100 | .204 | 3.032 | -3.202 | 2.931 | -2.031 | -.555 | -1.330 | -1.450 | .019 | 1.688 | -2.450 | 8 |
| 5 | 2.430 | .126 | .025 | 1.201 | -.548 | -1.555 | .542 | .246 | .347 | -2.901 | -.3890 | .016 | 7 |
| 6 | 6.431 | .420 | .947 | 4.610 | -1.545 | -.773 | .694 | -.862 | .333 | 1.428 | .109 | 5.725 | 6 |
| 7 | -.610 | -.403 | .729 | .058 | -1.636 | 2.366 | 1.005 | .354 | -.621 | .738 | 3.298 | -.212 | 5 |
| 8 | -4.100 | -1.751 | -1.114 | -2.539 | .784 | .876 | .120 | .772 | .920 | -1.177 | -.944 | -4.539 | 4 |
| 9 | .589 | -.059 | -.731 | -.403 | .959 | -.619 | -.124 | -1.673 | -.138 | 1.086 | -.467 | 2.244 | 3 |
| 10 | 1.772 | 1.624 | 1.245 | -.241 | .430 | -.248 | .288 | -1.569 | -1.949 | -.176 | -.173 | 4.020 | 2 |
| 11 | .817 | -.175 | .113 | .173 | 1.045 | -.444 | -.236 | .221 | .612 | -1.106 | -1.198 | .545 | 1 |
| 12 | .281 | -1.182 | -.274 | 1.111 | -.342 | -.203 | -.089 | .840 | 1.911 | .942 | -.032 | .705 | 1.168 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

November 1978

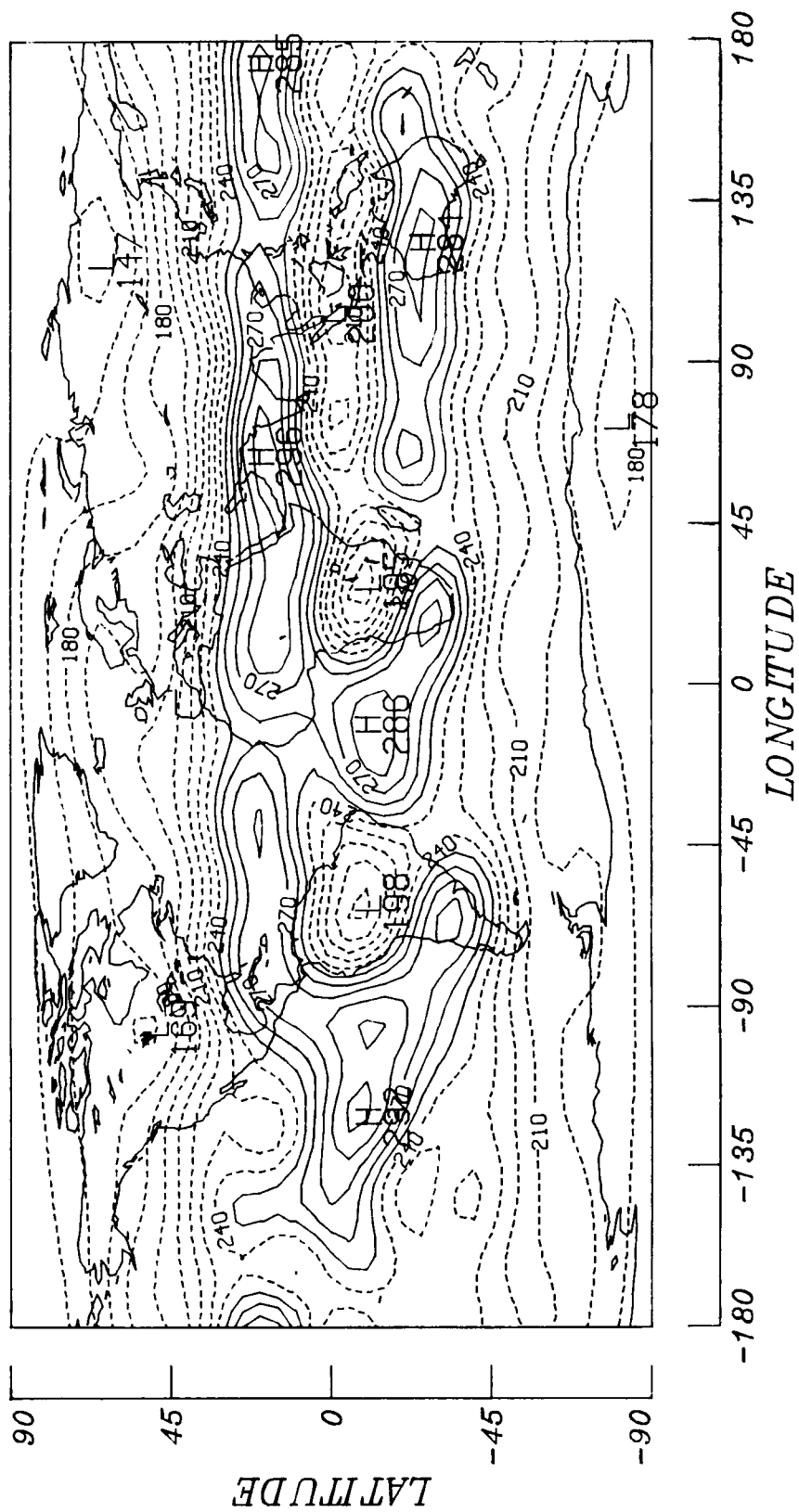


December 1978

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 290.047 | .313 | .127 | -.422 | -.311 | -.430 | -.558 | -.228 | -.203 | 1.087 | .971 | -.725 | -.438 |
| 1 | -7.975 | 2.525 | .148 | .161 | .514 | .597 | -1.465 | .549 | .315 | -1.146 | .319 | -.009 | 1.309 |
| 2 | -26.075 | 1.794 | .024 | .372 | .314 | .317 | .523 | -.558 | .987 | -1.108 | -1.357 | 1.368 | 2.392 |
| 3 | -3.038 | -.620 | 3.185 | 2.385 | -.006 | -.248 | .611 | -.452 | -.459 | 1.984 | .499 | .691 | -3.353 |
| 4 | -3.875 | .006 | 1.010 | -2.919 | 1.995 | .468 | .403 | .327 | -1.400 | -.497 | 1.788 | -1.984 | -1.543 |
| 5 | 5.242 | -.004 | .746 | -1.767 | -1.543 | 1.127 | 1.131 | -.315 | 1.500 | -2.446 | -1.549 | -.201 | 3.448 |
| 6 | 7.791 | 2.284 | 1.730 | 3.480 | -.741 | -.020 | -.579 | -.825 | 1.354 | 3.207 | -1.723 | 3.603 | 1.621 |
| 7 | -2.991 | 1.658 | -.551 | 1.051 | 1.310 | .542 | -.584 | .946 | -1.882 | .800 | .312 | .373 | -3.785 |
| 8 | -5.696 | -1.286 | -.513 | -2.110 | -1.011 | -.438 | .477 | -.265 | .687 | -2.411 | -.689 | -2.531 | -1.765 |
| 9 | .381 | -.328 | .355 | -1.060 | -.523 | -.370 | .235 | -1.109 | 1.121 | -.004 | 1.293 | .280 | .064 |
| 10 | 1.896 | .473 | .601 | .337 | 1.807 | .408 | -.020 | .022 | -1.190 | -.314 | -.323 | .672 | .420 |
| 11 | .242 | -.440 | -.230 | .641 | .385 | -.300 | -.347 | -.104 | -.704 | -.539 | 1.197 | -.293 | -2.353 |
| 12 | -.468 | -.322 | -.309 | .647 | -.289 | .134 | -.056 | -.556 | .586 | 1.609 | .595 | -.809 | .935 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

December 1978



January 1979

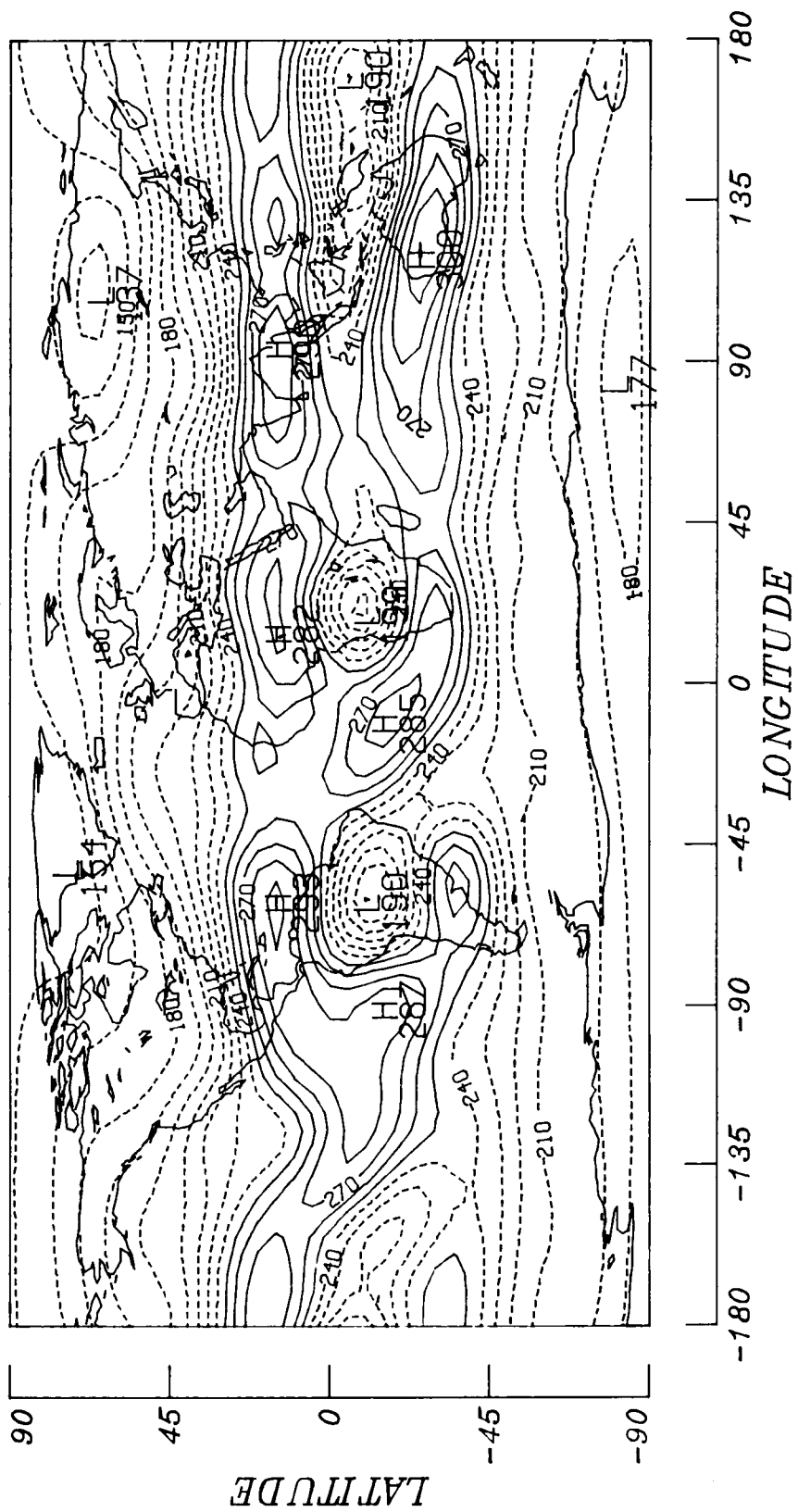
| | | | | | | | | | | | | | m/n | |
|---------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|-------|----|
| | | | | | | | | | | | | | m/n | |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 231.073 | 1.235 | .230 | -.719 | -.342 | .091 | .330 | -.545 | .119 | .166 | .900 | -.177 | -.487 | 12 | 12 |
| -10.234 | 1.530 | .097 | -.088 | -.711 | .494 | .168 | .987 | -.487 | -1.068 | .836 | -.181 | .262 | 11 | 11 |
| -26.590 | .506 | -2.507 | .378 | .732 | -.092 | .209 | -.034 | .505 | -.044 | -1.067 | .822 | 2.109 | 10 | 10 |
| -2.853 | -1.861 | 3.662 | 2.448 | -.491 | -.592 | -.083 | -1.831 | -.080 | 1.897 | .664 | 1.793 | -2.049 | 9 | 9 |
| -3.232 | .561 | 4.535 | -3.794 | 2.351 | -.136 | -.323 | .440 | -1.480 | -1.205 | 1.774 | -.539 | -.837 | 8 | 8 |
| 6.983 | 1.394 | .385 | -1.988 | -1.528 | .533 | -.087 | .818 | 1.418 | -3.338 | -2.437 | -.975 | 3.336 | 7 | 7 |
| 6.276 | -.744 | -.223 | 3.368 | -1.253 | .016 | -.166 | -.255 | .922 | 1.706 | -1.636 | 3.751 | .650 | 6 | 6 |
| -5.739 | -.538 | .963 | .325 | .439 | .672 | -.723 | -.060 | -1.993 | 1.851 | 1.227 | 2.170 | -4.514 | 5 | 5 |
| -4.000 | .129 | .368 | -1.919 | -1.022 | -.923 | 1.275 | -.079 | 1.001 | -1.056 | -.664 | -2.321 | -.334 | 4 | 4 |
| 3.381 | -.203 | -.203 | .306 | -.177 | .217 | -.308 | -.402 | -.635 | .530 | -.326 | -.404 | .030 | 3 | 3 |
| .982 | -.121 | 1.092 | -.116 | 2.012 | .520 | -.175 | -.365 | -.671 | -.908 | .084 | 1.246 | -.770 | 2 | 2 |
| -.364 | -.289 | -.415 | -.559 | .132 | -.518 | .231 | .327 | -.064 | .043 | .194 | .348 | -.937 | 1 | 1 |
| -.373 | .327 | -.578 | .420 | -1.170 | .165 | -.702 | .324 | .049 | .259 | -.807 | -.002 | -.058 | | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

C_n^m

S_n^m

 C_n^m S_n^m

January 1979

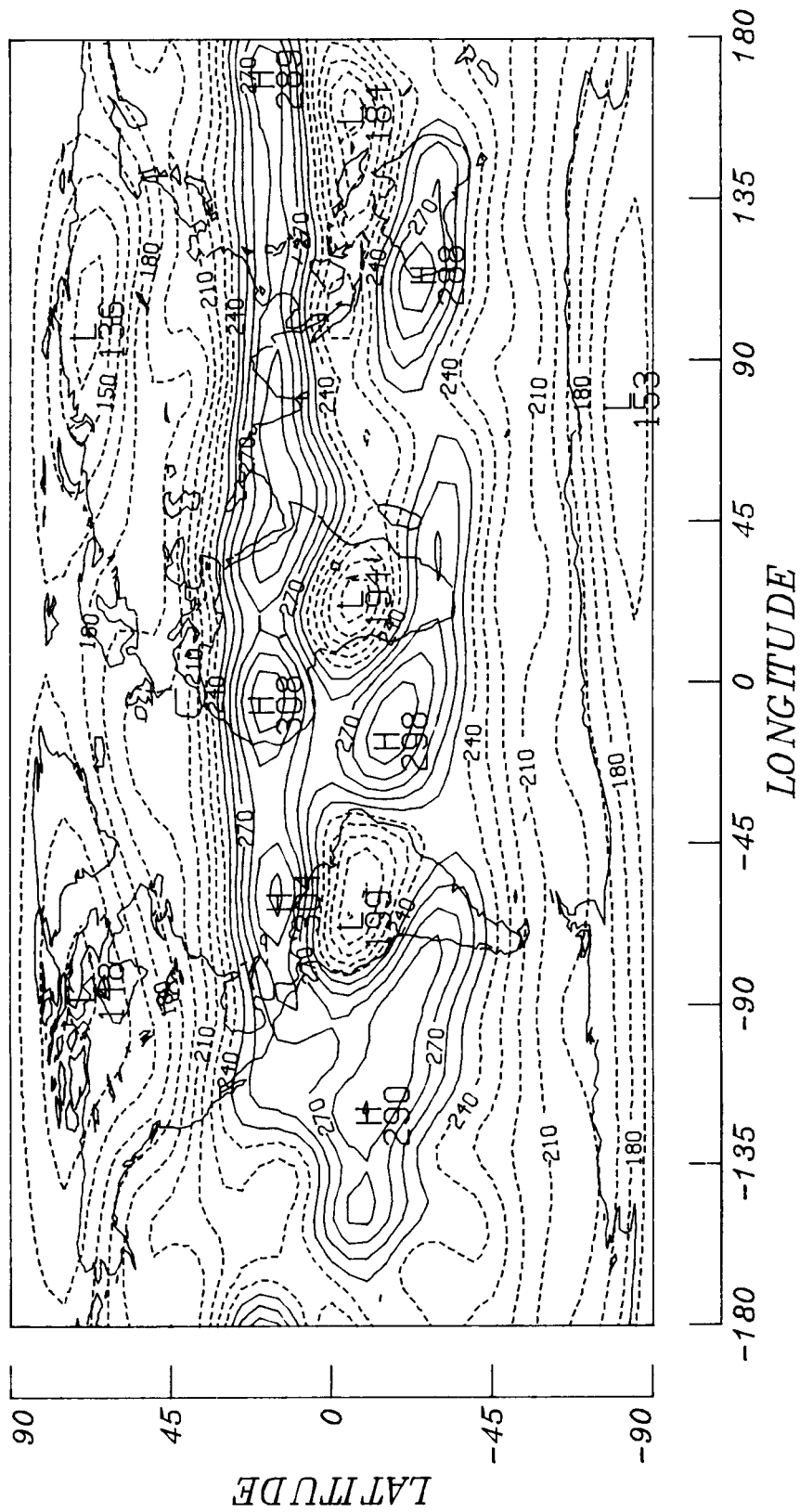


February 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.653 | .143 | -.012 | -.323 | -.101 | .412 | .102 | -.466 | -.285 | .026 | 1.407 | -1.272 | .367 |
| 1 | -8.940 | 4.018 | .581 | -.406 | .065 | .151 | .165 | -.138 | .919 | -1.042 | .970 | -.959 | .307 |
| 2 | -27.799 | 1.349 | -.840 | -.037 | -.279 | -.167 | .038 | .311 | .493 | -.062 | -1.447 | 1.816 | 2.369 |
| 3 | -2.693 | -1.385 | 2.591 | 3.807 | .427 | -.466 | -.145 | -.715 | -.953 | .622 | .582 | 2.019 | -1.808 |
| 4 | -4.354 | -1.684 | 2.740 | -3.022 | 1.350 | -.563 | -.325 | -.486 | -1.261 | -.389 | 2.145 | -1.550 | -1.514 |
| 5 | 7.759 | -.933 | 1.818 | -1.352 | -1.202 | -.176 | -.972 | .587 | 1.232 | -.114 | -2.951 | -2.189 | 1.122 |
| 6 | 6.422 | 2.358 | 1.342 | 3.274 | -.682 | -.363 | 1.076 | -1.699 | 2.265 | 1.967 | -2.968 | 2.709 | 2.966 |
| 7 | -4.593 | 1.786 | .410 | -.897 | .895 | .497 | .828 | .707 | -3.679 | -1.045 | 1.855 | 2.104 | -2.694 |
| 8 | -5.920 | -1.378 | 1.302 | -2.370 | -1.087 | -.472 | .356 | -.135 | .972 | -2.509 | .530 | -1.503 | -1.810 |
| 9 | 3.496 | -.936 | 1.217 | .399 | -.329 | .464 | -.744 | -.132 | .111 | .546 | -.624 | -.913 | .804 |
| 10 | 3.516 | .485 | .661 | .386 | 2.056 | .622 | -.473 | -.500 | -.637 | .145 | .109 | .868 | 2.244 |
| 11 | .798 | -.634 | -.877 | -.067 | .987 | -.369 | .079 | .693 | .407 | -.242 | -.143 | -.599 | -2.614 |
| 12 | -.546 | .039 | -.213 | .366 | -1.267 | -.036 | -.031 | .245 | -.219 | -.210 | 1.146 | .662 | 1.274 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

February 1979



March 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.770 | -265 | -0.24 | -1.119 | .012 | .103 | -.146 | -.116 | -.302 | .483 | 1.327 | -.934 | .481 |
| 1 | -4.486 | 2.879 | .537 | -.159 | .092 | -.139 | -.016 | .607 | .561 | -.693 | .346 | -.450 | .603 |
| 2 | -27.013 | 1.139 | -.640 | .201 | -.423 | .393 | .483 | -.344 | .253 | -.445 | -1.001 | 1.483 | 2.346 |
| 3 | .184 | -.510 | 1.599 | .812 | .332 | -.548 | -.285 | -1.193 | -1.053 | 1.721 | 1.148 | 1.110 | -2.844 |
| 4 | -5.807 | .888 | 1.759 | -2.395 | 2.287 | -.721 | .035 | .531 | -.561 | -1.051 | 1.108 | -1.219 | -1.837 |
| 5 | 6.173 | -.570 | .921 | -.710 | -.197 | -1.071 | -.881 | .083 | 1.591 | -2.101 | -2.893 | -1.292 | 1.616 |
| 6 | 5.082 | -.510 | .855 | 3.373 | -1.753 | -1.088 | -.702 | .006 | .779 | 1.989 | -1.209 | 2.674 | 4.528 |
| 7 | -3.582 | .413 | -.826 | -.471 | -.214 | 1.074 | -.184 | -.108 | -3.962 | .640 | 2.207 | 1.304 | -2.191 |
| 8 | -6.071 | -.185 | .419 | -1.986 | -.748 | .153 | .544 | -.170 | 1.723 | -2.600 | -.301 | -2.444 | .353 |
| 9 | 3.433 | .380 | 1.454 | .224 | .032 | -.842 | .079 | -.371 | -.555 | .512 | -1.384 | .576 | -.181 |
| 10 | 3.103 | 1.123 | .479 | .106 | 1.406 | -.404 | -.393 | -.215 | -.937 | -.535 | -.638 | 3.934 | .697 |
| 11 | .246 | -.747 | -1.228 | -.407 | .113 | -.445 | .152 | .284 | .331 | .201 | .178 | .324 | -1.258 |
| 12 | -.899 | -.835 | .521 | .596 | -.840 | .272 | .164 | -.204 | .464 | .953 | .149 | .853 | -.270 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

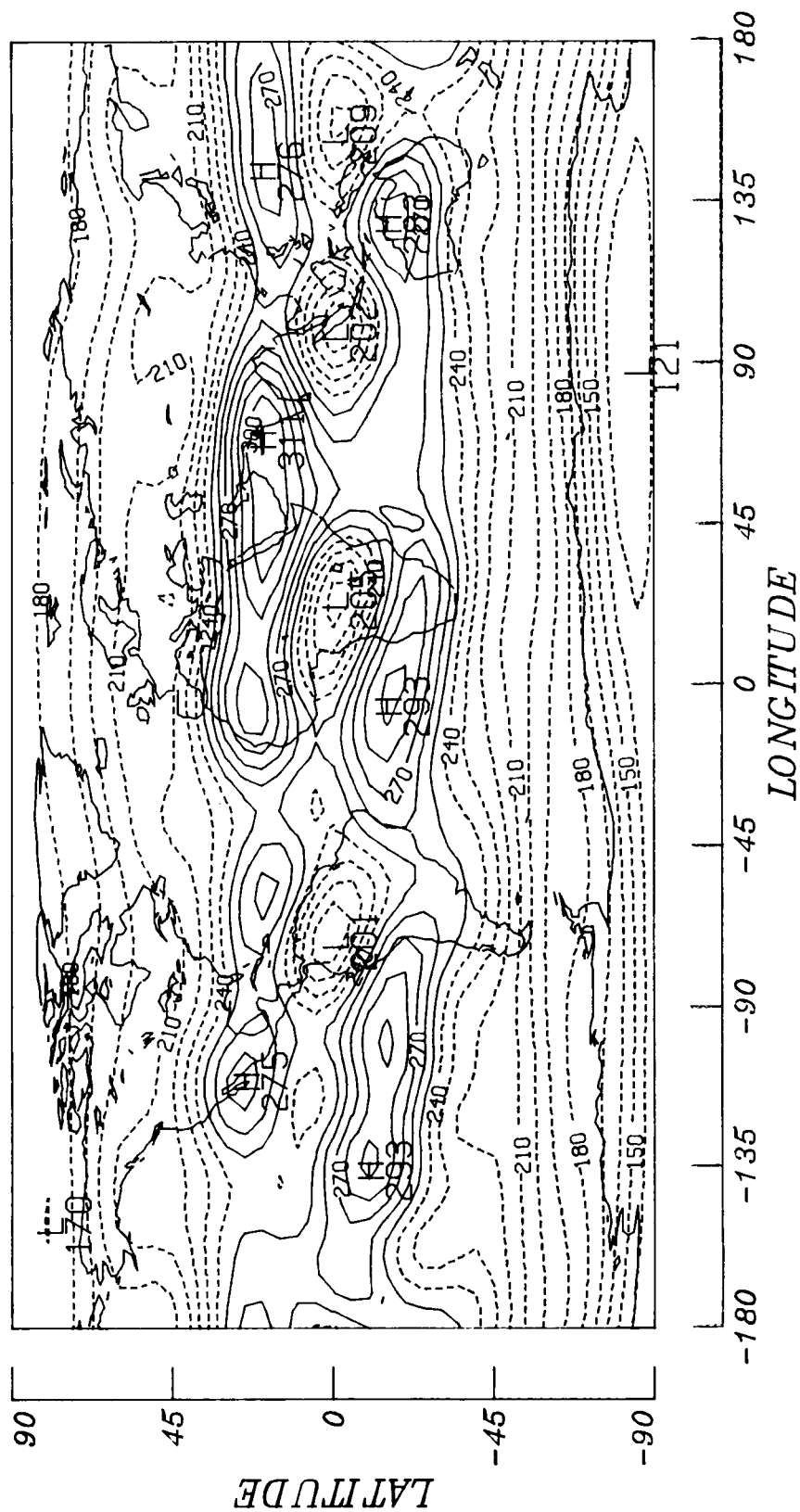
 C_n^m S_n^m

April 1979

| | | | | | | | | | | | | | m/n |
|---------|--------|---------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 |
| 233.293 | 1.949 | -27.037 | 2.843 | -5.822 | 2.701 | 4.846 | -0.040 | -7.940 | -1.689 | 3.837 | 1.993 | -3.961 | 12 |
| | 3.467 | 1.432 | .234 | -.132 | -1.864 | .418 | 2.555 | -4.67 | -1.098 | .527 | .946 | .143 | 11 |
| | -.151 | .272 | .878 | .756 | -.607 | .398 | -.043 | .163 | .132 | .959 | -.541 | -.437 | 10 |
| | .175 | .450 | .704 | -.443 | -.812 | 3.818 | .149 | -2.154 | .586 | .659 | -.950 | .417 | 9 |
| | .529 | -.353 | .038 | -.443 | 1.039 | .152 | .344 | -1.613 | -.821 | .655 | .484 | .207 | 8 |
| | .211 | -.013 | .292 | -.977 | -.170 | .152 | -.287 | .354 | .034 | -.538 | .462 | .783 | 7 |
| | -.204 | .634 | -.304 | -.198 | -.022 | 1.291 | .188 | .179 | -.035 | -.029 | -.684 | -.527 | 6 |
| | -.227 | -.863 | -.304 | -.338 | 2.414 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | 5 |
| | .537 | -.730 | 1.814 | -.331 | -.495 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | 4 |
| | -.1012 | -.429 | 1.105 | -.197 | -.928 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | 3 |
| | | .897 | 1.985 | 1.105 | -.928 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | 2 |
| | | | 1.985 | 1.105 | -.928 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | 1 |
| | | | | 1.105 | -.928 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | |
| | | | | | 1.105 | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | |
| | | | | | | 1.291 | .188 | .354 | -.035 | -.029 | -.684 | -.527 | |
| | | | | | | | .188 | .354 | -.035 | -.029 | -.684 | -.527 | |
| | | | | | | | | .354 | -.035 | -.029 | -.684 | -.527 | |
| | | | | | | | | | -.035 | -.029 | -.684 | -.527 | |
| | | | | | | | | | | -.029 | -.684 | -.527 | |
| | | | | | | | | | | | -.684 | -.527 | |
| | | | | | | | | | | | | -.527 | |
| | | | | | | | | | | | | | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

April 1979

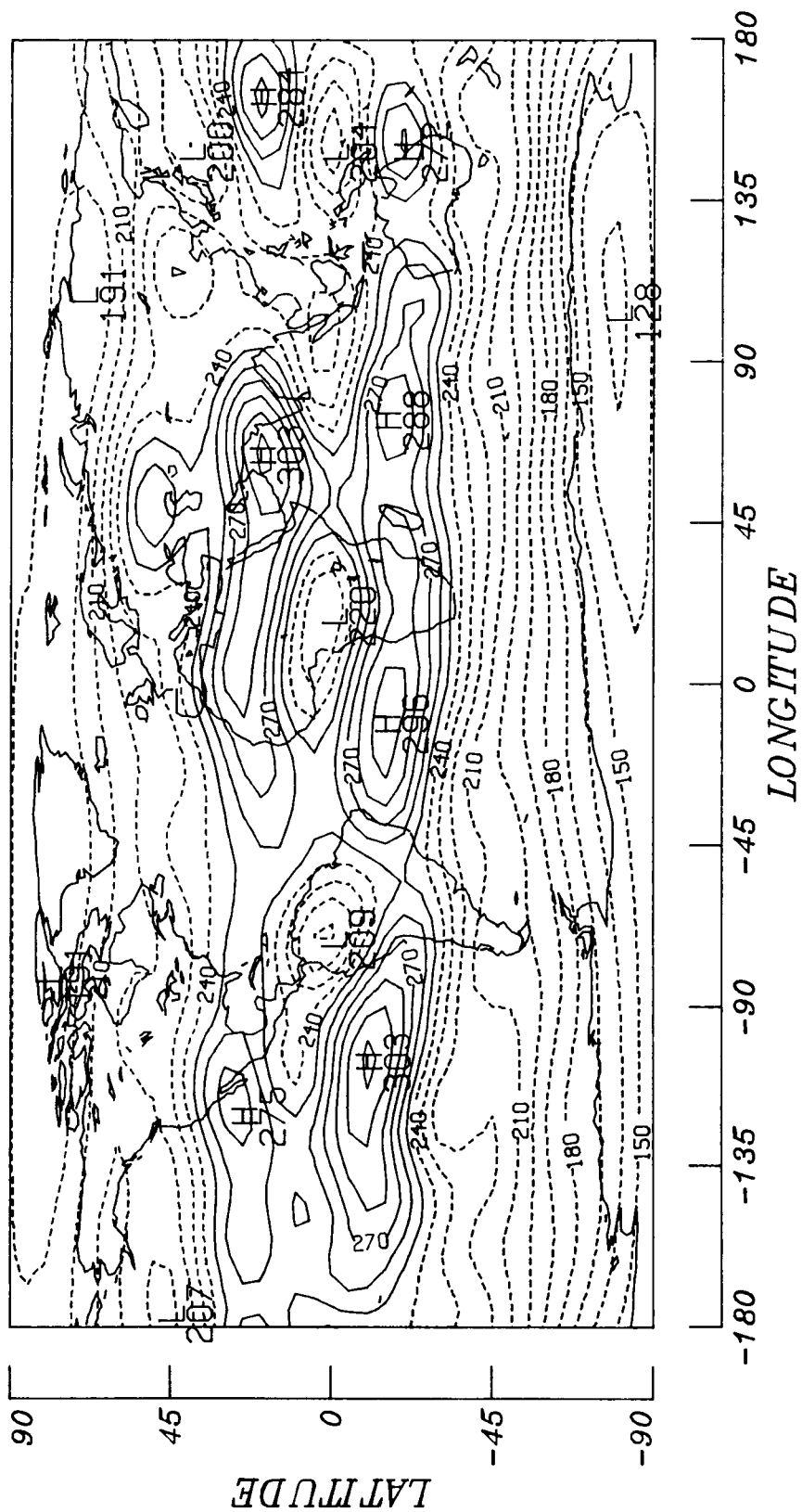


May 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 234.818 | .172 | .221 | .047 | .327 | -.008 | .217 | -.232 | .200 | .935 | -.031 | -.276 | .471 |
| 1 | 8.472 | 4.013 | .160 | -.614 | -.032 | -.259 | .140 | -.592 | .528 | -1.214 | -.818 | -1.551 | 1.373 |
| 2 | -24.738 | 1.591 | .755 | .187 | .312 | -.329 | .024 | .495 | -.440 | -.937 | .083 | .428 | 1.899 |
| 3 | 5.049 | -.412 | .505 | .375 | -.310 | -.080 | .358 | -.077 | -1.447 | .889 | 1.104 | 1.240 | -1.589 |
| 4 | -5.242 | 1.069 | -.755 | -1.539 | -.822 | -.212 | .250 | -.399 | -.825 | -.252 | .731 | .108 | -2.169 |
| 5 | -1.748 | -2.037 | -1.409 | -.189 | -1.029 | -.238 | .655 | .331 | 1.021 | .174 | -.680 | -.591 | -.076 |
| 6 | 3.863 | -1.968 | -.169 | 1.983 | .834 | -.420 | -.086 | .162 | .355 | 1.786 | .073 | 1.013 | 2.128 |
| 7 | 2.589 | 1.265 | 1.473 | .014 | .811 | .714 | 1.980 | .321 | -2.080 | -1.370 | 1.650 | .198 | -3.593 |
| 8 | -6.003 | -.469 | 1.367 | -2.030 | -1.836 | -.337 | .303 | -.388 | .152 | -3.354 | -.409 | -.592 | 1.837 |
| 9 | -2.378 | -1.092 | .509 | -1.499 | -1.350 | -1.558 | .058 | .227 | -.144 | .409 | -1.077 | 1.595 | 1.260 |
| 10 | 4.514 | .474 | .241 | .783 | .472 | -.117 | 1.988 | .272 | -7.87 | .049 | -.307 | 6.278 | .781 |
| 11 | 1.569 | .360 | -.632 | .592 | .423 | .908 | .213 | .183 | -.213 | .199 | -.844 | .138 | -.609 |
| 12 | -.548 | .279 | -.094 | .059 | .829 | .163 | -1.063 | .270 | .893 | .678 | .866 | .297 | -.092 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

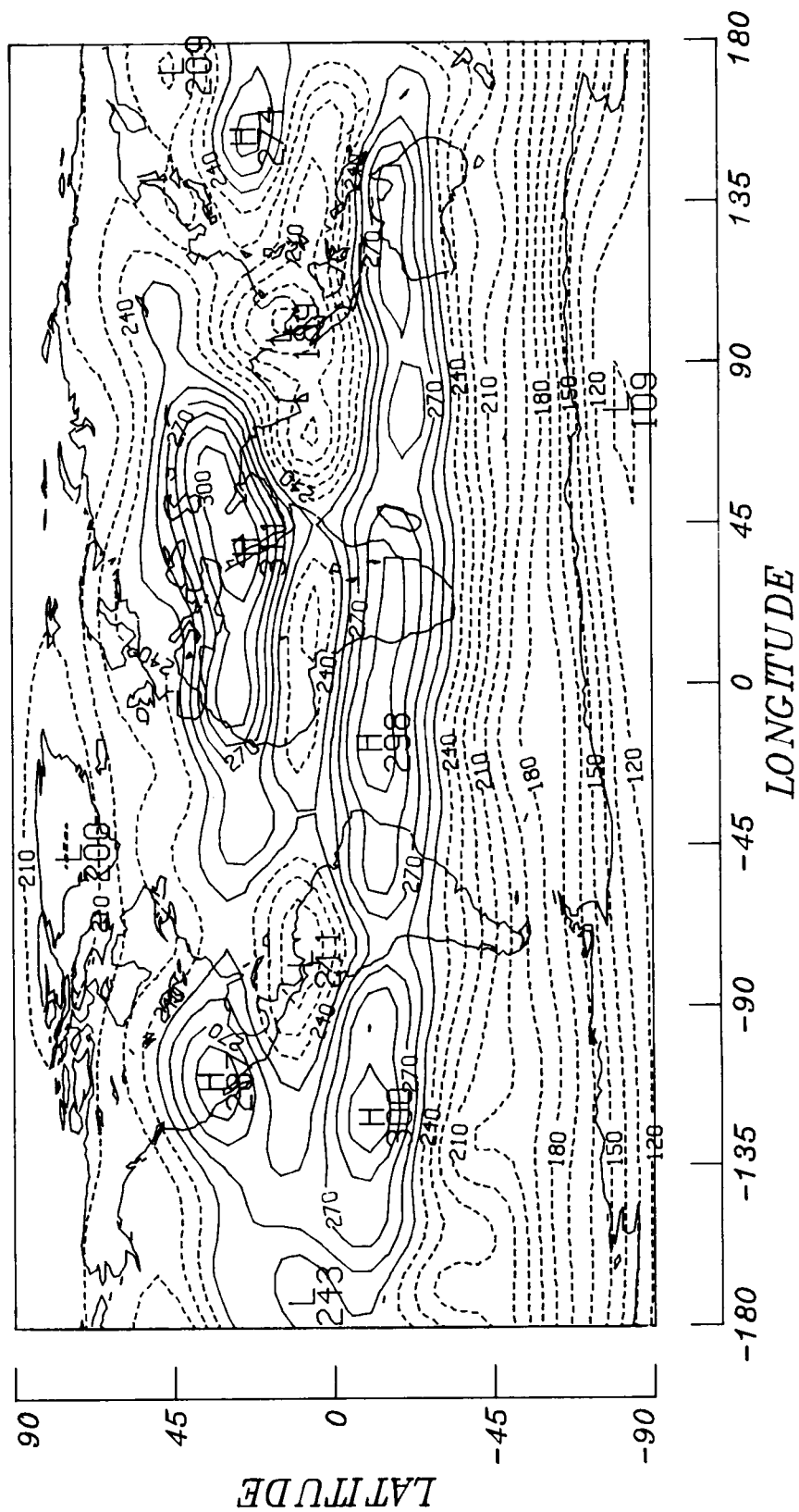
May 1979



June 1979

| | | | | | | | | | | | | | C_n^m | | S_n^m | |
|-----|---------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|---------|-----|---------|-----|
| n | m | | | | | | | | | | | | n | m | n | m |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | |
| 0 | 236.347 | -404 | -993 | -289 | -1.393 | -0.44 | .171 | .154 | -.329 | -.224 | -.584 | -.211 | -.215 | 12 | 12 | 12 |
| 1 | 12.773 | 5.075 | .464 | .329 | -.280 | .350 | .143 | -.426 | .424 | .538 | -.262 | .301 | .718 | 11 | 11 | 11 |
| 2 | -23.625 | 1.947 | 2.887 | .297 | -.011 | -.224 | -.423 | -.012 | .673 | -.020 | .820 | 1.293 | 1.345 | 10 | 10 | 10 |
| 3 | 9.037 | -.415 | 1.749 | 1.408 | .082 | -.038 | .188 | .553 | -.595 | .959 | 1.344 | .488 | -1.787 | 9 | 9 | 9 |
| 4 | -7.924 | 1.481 | -2.542 | -.683 | -2.899 | -.710 | -.400 | .648 | -.629 | 1.033 | .047 | -.645 | -.247 | 8 | 8 | 8 |
| 5 | -6.164 | -3.385 | -3.852 | -1.415 | -1.280 | -1.328 | -.086 | .005 | .208 | -.289 | -1.603 | -.930 | 1.537 | 7 | 7 | 7 |
| 6 | 4.748 | -2.862 | .364 | 2.638 | .722 | -.287 | -.123 | .284 | -.343 | -.640 | -.534 | -.205 | .869 | 6 | 6 | 6 |
| 7 | 6.738 | 1.494 | 2.187 | .841 | .404 | .526 | .598 | .708 | -.559 | -2.072 | 1.736 | -1.354 | -4.374 | 5 | 5 | 5 |
| 8 | -4.682 | .685 | 1.728 | -.911 | .192 | -.098 | -.038 | .553 | .646 | -2.018 | 1.084 | .319 | 3.141 | 4 | 4 | 4 |
| 9 | -3.603 | -.249 | .383 | .531 | .037 | -1.211 | .739 | .438 | .204 | .728 | 1.171 | 4.480 | 3.575 | 3 | 3 | 3 |
| 10 | 1.622 | -.297 | -.011 | .619 | -.484 | -.881 | .559 | .572 | -.669 | .741 | .001 | 5.259 | -.478 | 2 | 2 | 2 |
| 11 | 1.768 | -1.033 | -1.521 | -.241 | -.276 | -.010 | -.680 | .717 | -.493 | .722 | .248 | -.938 | -2.384 | 1 | 1 | 1 |
| 12 | .116 | 1.057 | -.200 | -.004 | .843 | .196 | -.337 | .148 | -.137 | -.229 | .464 | -.038 | .372 | | | |
| n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | |

June 1979

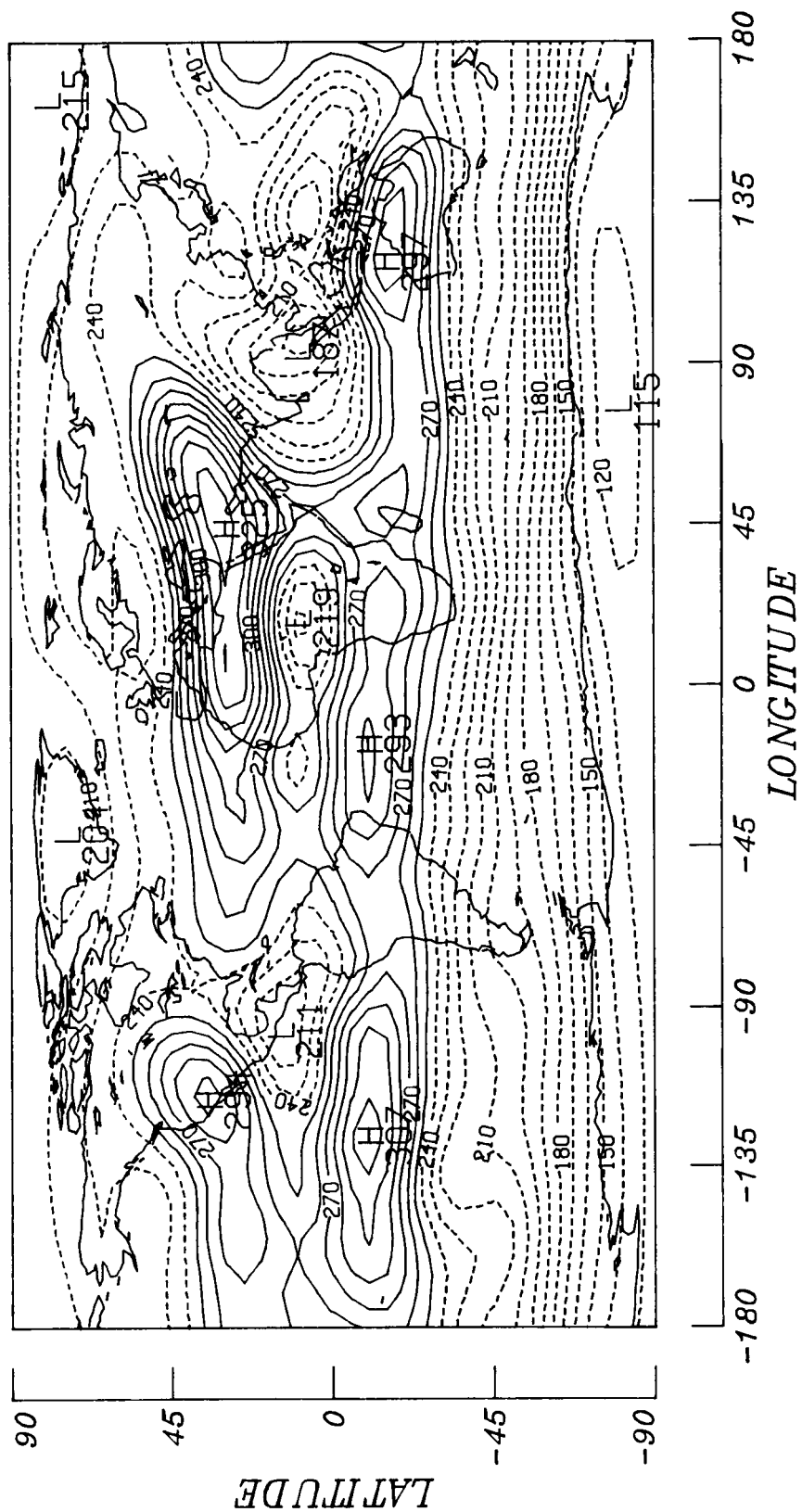


July 1979

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 238.925 | -1.230 | .040 | -.496 | .323 | -.345 | -.388 | -.208 | -.239 | .144 | .343 | .123 | -.732 |
| 1 | 16.697 | 4.003 | -.015 | -.027 | .253 | -.109 | .101 | .035 | .016 | 1.351 | .172 | .528 | .537 |
| 2 | -23.210 | 4.426 | 4.457 | .534 | .282 | .209 | -.156 | .547 | .313 | .815 | .189 | 1.938 | 1.299 |
| 3 | 9.434 | -.908 | 2.534 | -.194 | -.058 | -.295 | -.243 | 1.039 | -.567 | -.417 | .455 | 1.339 | -.846 |
| 4 | -7.936 | -.925 | -2.180 | -2.030 | -3.531 | .147 | .376 | 1.205 | -.860 | -1.052 | -.092 | -.864 | -.449 |
| 5 | -6.435 | -3.019 | -4.839 | -.114 | -1.775 | -1.590 | .081 | -1.001 | .073 | -1.172 | -1.855 | -1.445 | 1.485 |
| 6 | 4.146 | -1.550 | -1.747 | 2.697 | .439 | -.147 | 2.573 | -.084 | .126 | -1.074 | .047 | -.224 | 1.461 |
| 7 | 7.487 | 1.381 | 1.070 | -.070 | .186 | .584 | 2.148 | .645 | -2.651 | -1.430 | 1.691 | -.779 | -4.255 |
| 8 | -3.231 | 1.030 | 1.072 | -1.675 | .527 | -.130 | .315 | .885 | .170 | -.307 | .106 | .954 | 3.571 |
| 9 | -4.773 | 1.334 | 1.100 | .596 | .887 | -.546 | .976 | -.101 | -.013 | .565 | -.738 | 3.996 | 2.944 |
| 10 | 1.045 | -.372 | .658 | 2.339 | .197 | .332 | .140 | -.550 | -.867 | .840 | .084 | 6.527 | -.483 |
| 11 | .848 | -1.235 | -1.410 | .097 | -.879 | .374 | -.090 | .187 | -.368 | .321 | .501 | -.484 | -2.333 |
| 12 | .468 | .720 | -.539 | -1.016 | .218 | -.480 | -.270 | -.017 | -.410 | -.456 | .530 | -.113 | .208 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

July 1979

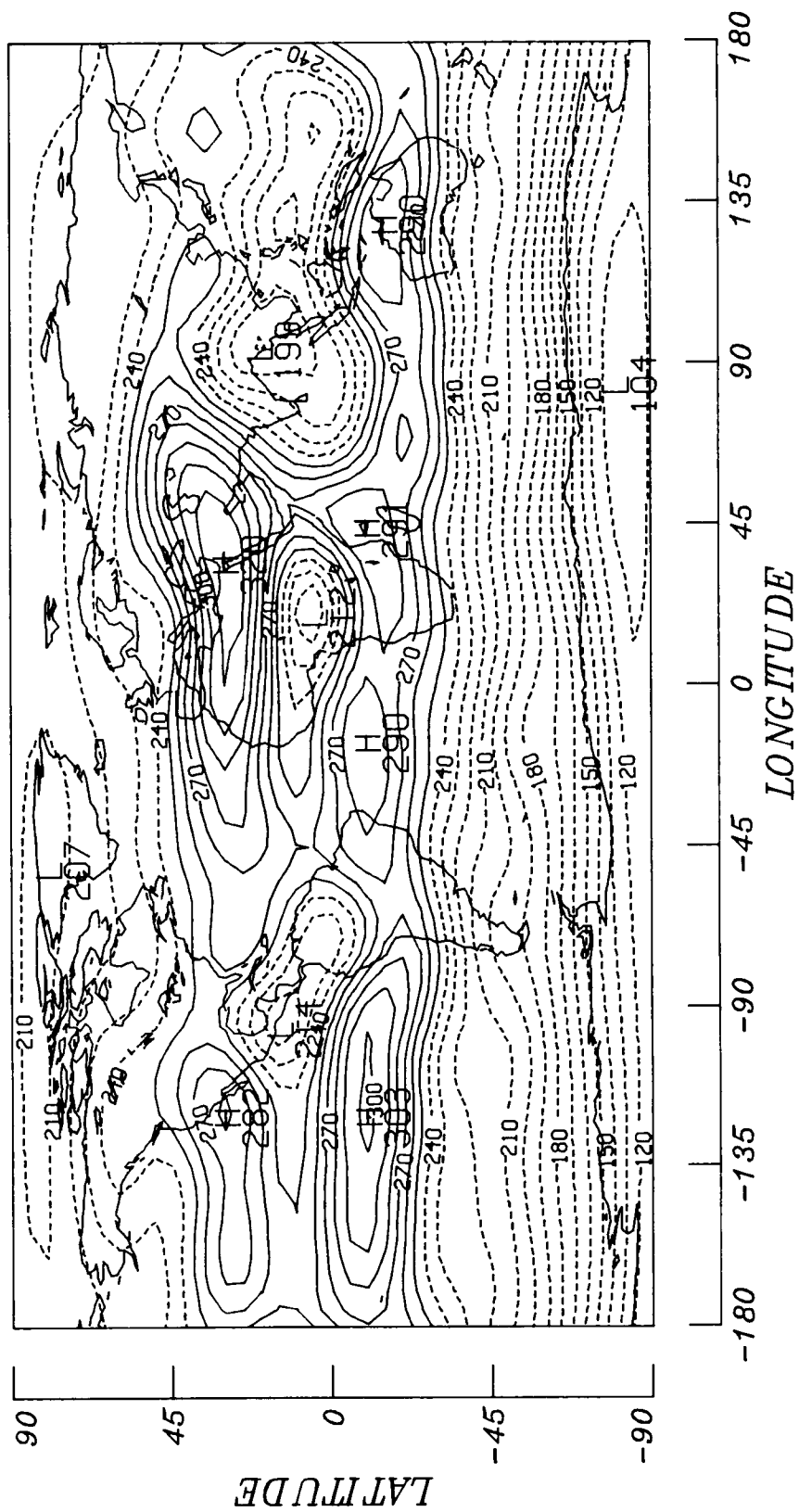


August 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 239.182 | -.110 | -.549 | -.141 | -.281 | -.108 | -.194 | .539 | -.349 | .109 | .228 | -.377 | -.171 |
| 1 | 14.781 | 4.068 | .127 | .329 | -.288 | -.389 | .096 | -.734 | 1.113 | .815 | -.163 | -1.171 | .532 |
| 2 | -24.051 | 4.442 | 3.085 | .078 | .110 | .623 | .115 | .135 | .892 | .376 | .580 | .540 | 2.107 |
| 3 | 9.040 | -.533 | 2.259 | .170 | -.185 | .298 | .105 | -.213 | -1.040 | -.619 | .897 | 1.045 | -.139 |
| 4 | -8.481 | -1.832 | -.749 | -1.592 | -3.865 | .369 | -.578 | -.116 | -.989 | -1.168 | -.712 | -.469 | -.508 |
| 5 | -5.570 | -3.268 | -3.324 | -.672 | -2.468 | -1.558 | .019 | -.243 | 1.192 | -.980 | -1.663 | -.373 | .029 |
| 6 | 3.220 | -.204 | -.908 | 1.707 | .601 | -.111 | 1.893 | -.157 | -.303 | -.566 | .872 | .692 | .387 |
| 7 | 8.218 | 1.697 | .132 | .544 | -.054 | 1.089 | 1.371 | .782 | -3.169 | -.485 | 1.803 | -.542 | -3.892 |
| 8 | -3.066 | .306 | 1.130 | -1.556 | -.393 | -.462 | .077 | .742 | .613 | -.801 | -.223 | .610 | 3.176 |
| 9 | -3.860 | -.114 | 1.099 | -.283 | .312 | -1.335 | .084 | -.625 | -.568 | .311 | -.328 | 3.425 | 2.849 |
| 10 | .319 | -.388 | .957 | 2.146 | -.052 | .541 | .444 | .148 | -1.370 | .871 | .100 | 5.375 | -.183 |
| 11 | .949 | -.507 | -1.636 | .766 | -.897 | .546 | -.052 | .813 | -.332 | .330 | .266 | -.671 | -2.341 |
| 12 | .370 | .607 | -.578 | -.801 | .239 | -.204 | -.447 | .257 | .478 | .414 | .420 | -.275 | .035 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

August 1979

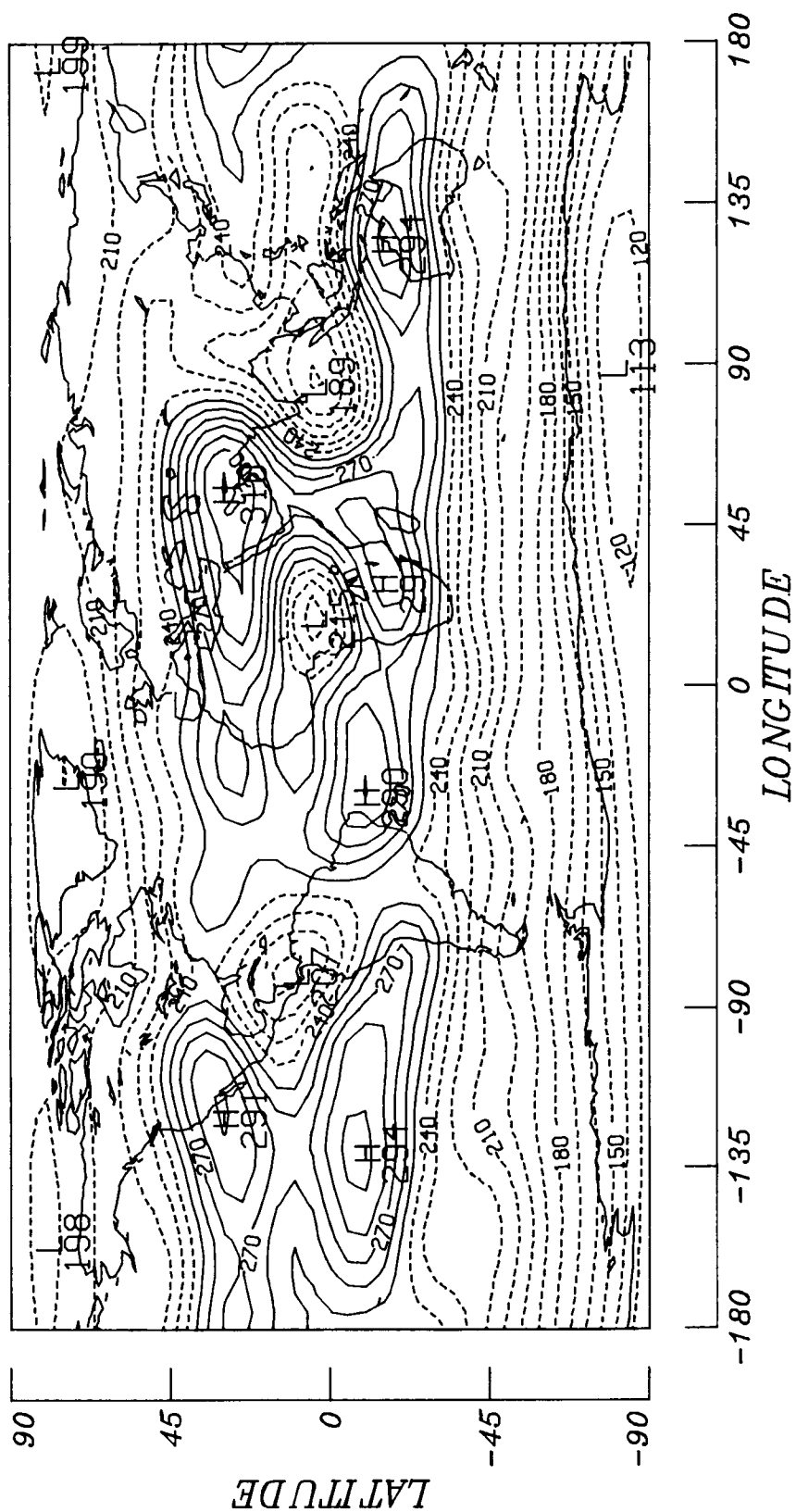


September 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.497 | -.313 | .523 | .279 | -.199 | -.500 | -.167 | .310 | -.422 | -.626 | .635 | -.268 | .236 |
| 1 | 10.988 | 2.748 | -.212 | .144 | -.254 | -.268 | -.071 | -.489 | .379 | .565 | -.039 | -.464 | .680 |
| 2 | -25.359 | 2.085 | 3.512 | .008 | -.094 | -.075 | -.128 | -.167 | .885 | .693 | .211 | .978 | .890 |
| 3 | 6.701 | -.755 | 1.863 | .631 | .175 | .165 | .333 | -.191 | -.633 | .282 | .600 | 1.145 | -.2717 |
| 4 | -7.624 | .348 | -1.808 | -1.298 | -5.185 | .164 | -.088 | .442 | -.859 | -.515 | -.810 | .111 | .049 |
| 5 | -3.867 | -1.472 | -2.773 | -.835 | -2.061 | -2.199 | 1.035 | .654 | 1.225 | -1.017 | -1.368 | -.350 | 1.987 |
| 6 | 4.490 | -1.041 | .516 | 1.933 | 1.650 | -.741 | 2.041 | -.939 | .098 | .024 | 1.465 | -.059 | 1.238 |
| 7 | 6.855 | .595 | .540 | .548 | .178 | .798 | 2.107 | .885 | -2.884 | -1.890 | 1.042 | -1.484 | -3.340 |
| 8 | -3.802 | -.465 | .304 | -1.110 | -.371 | -.273 | .407 | .572 | .300 | -2.738 | -.393 | -.164 | 2.446 |
| 9 | -3.034 | .012 | .478 | .498 | 1.217 | -.700 | -.805 | -.958 | -.011 | -.130 | .772 | 4.619 | 1.795 |
| 10 | .897 | .299 | .268 | 1.056 | .029 | -.064 | .481 | -.278 | -1.289 | -.711 | -.038 | 6.641 | -.810 |
| 11 | 1.071 | -.155 | -1.560 | -.962 | -.593 | .341 | .305 | 1.302 | -.872 | -.420 | .159 | .357 | -1.802 |
| 12 | .421 | .676 | -.163 | -.788 | .293 | -.121 | -.873 | .131 | .533 | -.289 | .481 | -.286 | .195 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

September 1979

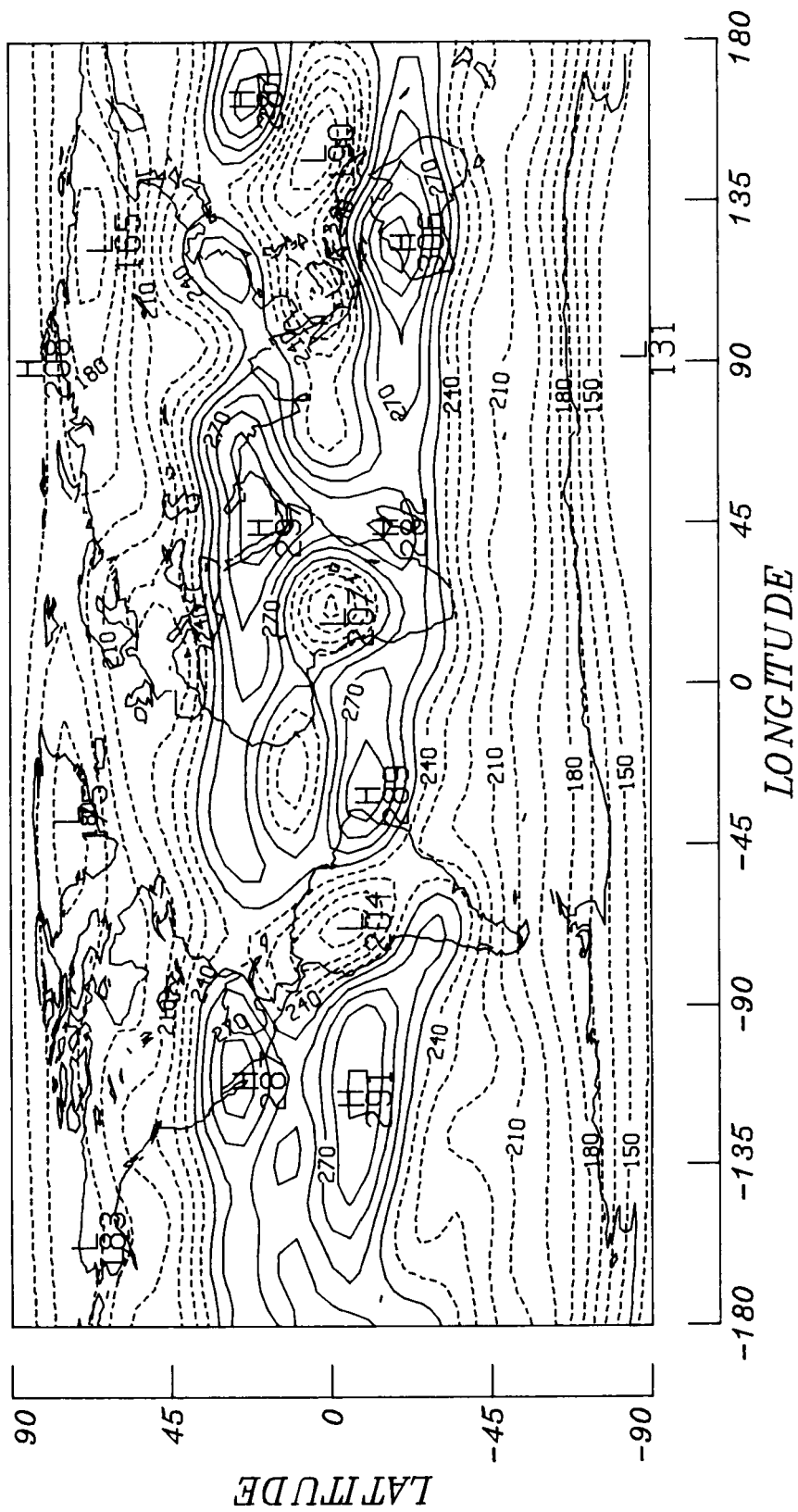


October 1979

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 233.485 | .636 | -.006 | .238 | -.969 | -.232 | -.587 | -.775 | -.161 | .039 | .861 | -.417 | -.087 |
| 1 | 3.443 | .923 | .124 | -.215 | -.364 | .241 | -.135 | -.245 | 1.520 | -.764 | -.271 | -.324 | 1.632 |
| 2 | -25.883 | 1.757 | -.542 | .683 | -.514 | -.253 | .707 | .757 | 1.320 | -.174 | -.258 | .875 | 2.182 |
| 3 | 1.952 | -1.077 | 1.096 | 1.378 | .894 | -.795 | .809 | .261 | -.801 | 1.631 | 1.548 | .608 | -2.871 |
| 4 | -6.536 | -.106 | .547 | -1.688 | -1.109 | -1.090 | .748 | .134 | -1.678 | -.468 | .850 | .142 | .029 |
| 5 | .207 | .606 | -.554 | -.359 | -.559 | -2.559 | .533 | .352 | .926 | -1.148 | -2.384 | 1.359 | 2.387 |
| 6 | 5.974 | .859 | 1.018 | 3.115 | .467 | -1.037 | 1.214 | .639 | 1.473 | .878 | -.052 | 2.786 | .090 |
| 7 | 5.343 | .305 | .805 | .681 | -.698 | .293 | .730 | 1.034 | -2.629 | -1.432 | 2.377 | -2.637 | -3.581 |
| 8 | -4.628 | -.587 | .518 | -2.168 | -.846 | -.646 | .407 | 1.378 | 2.438 | -2.704 | -.654 | -2.567 | 1.589 |
| 9 | -2.063 | -.258 | -.179 | -.403 | .782 | -.358 | -.799 | -1.054 | -.877 | 1.475 | -.352 | 3.350 | .431 |
| 10 | 1.613 | -.399 | -.002 | 1.207 | 1.282 | .684 | .099 | -.929 | -2.161 | .146 | -.378 | 4.724 | -1.077 |
| 11 | 2.324 | -.292 | -1.040 | -.358 | .111 | -.744 | .355 | -.440 | -1.105 | .088 | -.254 | -.086 | .317 |
| 12 | 1.242 | -.123 | -.313 | -.658 | .062 | -.175 | -.233 | -.477 | .404 | .932 | .164 | -.036 | .356 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

October 1979



$$S_n^m$$

Figure 1 is a contour map of the tropical Pacific region, spanning from 90°N to 90°S latitude and 180° to 180° longitude. The map displays the distribution of the 1000-mb geopotential height (solid lines) and the 1000-mb wind speed (dashed lines). The geopotential height contours are labeled with values such as 176, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000. The wind speed contours are labeled with values such as 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The map shows a high-pressure system (H) centered around 15°N, 150°W, and a low-pressure system (L) centered around 15°S, 150°W. The wind speed contours show a maximum of 15 m/s in the central equatorial region.

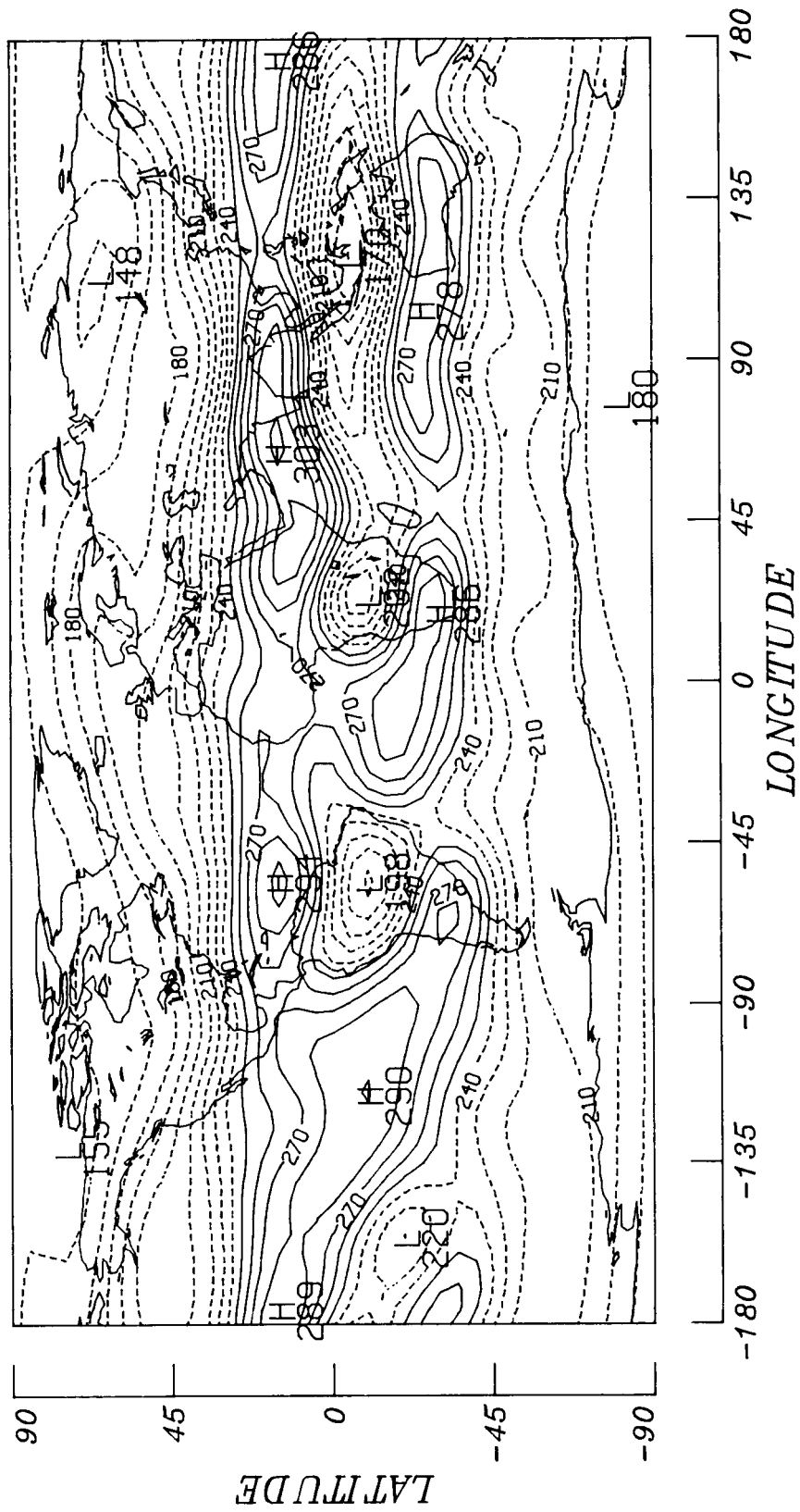
[illegible]

January 1980

| | | | | | | | | | | | | | m/n |
|-------|---------|-------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.923 | .527 | -.192 | -.346 | .794 | .092 | .169 | -.391 | -.788 | .492 | 1.154 | -.797 | -.787 |
| 1 | -10.003 | 2.341 | .038 | -.509 | -.688 | .430 | -.112 | .520 | 1.058 | -.854 | 1.104 | -.077 | .442 |
| 2 | -26.437 | .440 | 1.081 | .344 | .095 | -.252 | .647 | -.051 | .666 | -1.098 | -.149 | 1.296 | 2.493 |
| 3 | -4.028 | -.935 | 2.832 | .485 | -.253 | -.482 | -.178 | -1.098 | -1.291 | 2.294 | .117 | .576 | -2.262 |
| 4 | -3.079 | 1.435 | 1.733 | -3.035 | 2.315 | .043 | .159 | .389 | -.337 | -.299 | .479 | -2.240 | -1.734 |
| 5 | 7.432 | .330 | 1.890 | -.424 | -2.322 | .328 | -.791 | .381 | .674 | -2.687 | -1.661 | -.630 | 2.940 |
| 6 | 7.200 | .294 | 2.036 | 3.161 | -.014 | -.339 | .237 | -1.010 | .665 | 2.204 | -.413 | 4.347 | 2.960 |
| 7 | -6.297 | .406 | -.284 | -.583 | 1.377 | .684 | .150 | .749 | -.697 | .440 | 1.014 | .575 | -3.635 |
| 8 | -5.594 | -.044 | -.664 | -2.517 | -.829 | .017 | .615 | .771 | 1.046 | -2.813 | -1.418 | -4.186 | -1.484 |
| 9 | 4.178 | .294 | .202 | .071 | -.022 | -.185 | -.202 | -1.483 | -.414 | -.326 | -.055 | .291 | 2.108 |
| 10 | 1.675 | .075 | .816 | .662 | 1.637 | -.117 | .551 | -.385 | -.977 | -.071 | .308 | 4.842 | 1.035 |
| 11 | -.826 | -.639 | -.090 | -.014 | .322 | -.244 | .368 | .951 | .450 | -.342 | -.084 | .303 | -4.544 |
| 12 | -.286 | -.630 | -.163 | .366 | -.629 | .301 | -1.135 | -.079 | .338 | 1.130 | .356 | .069 | .229 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

January 1980

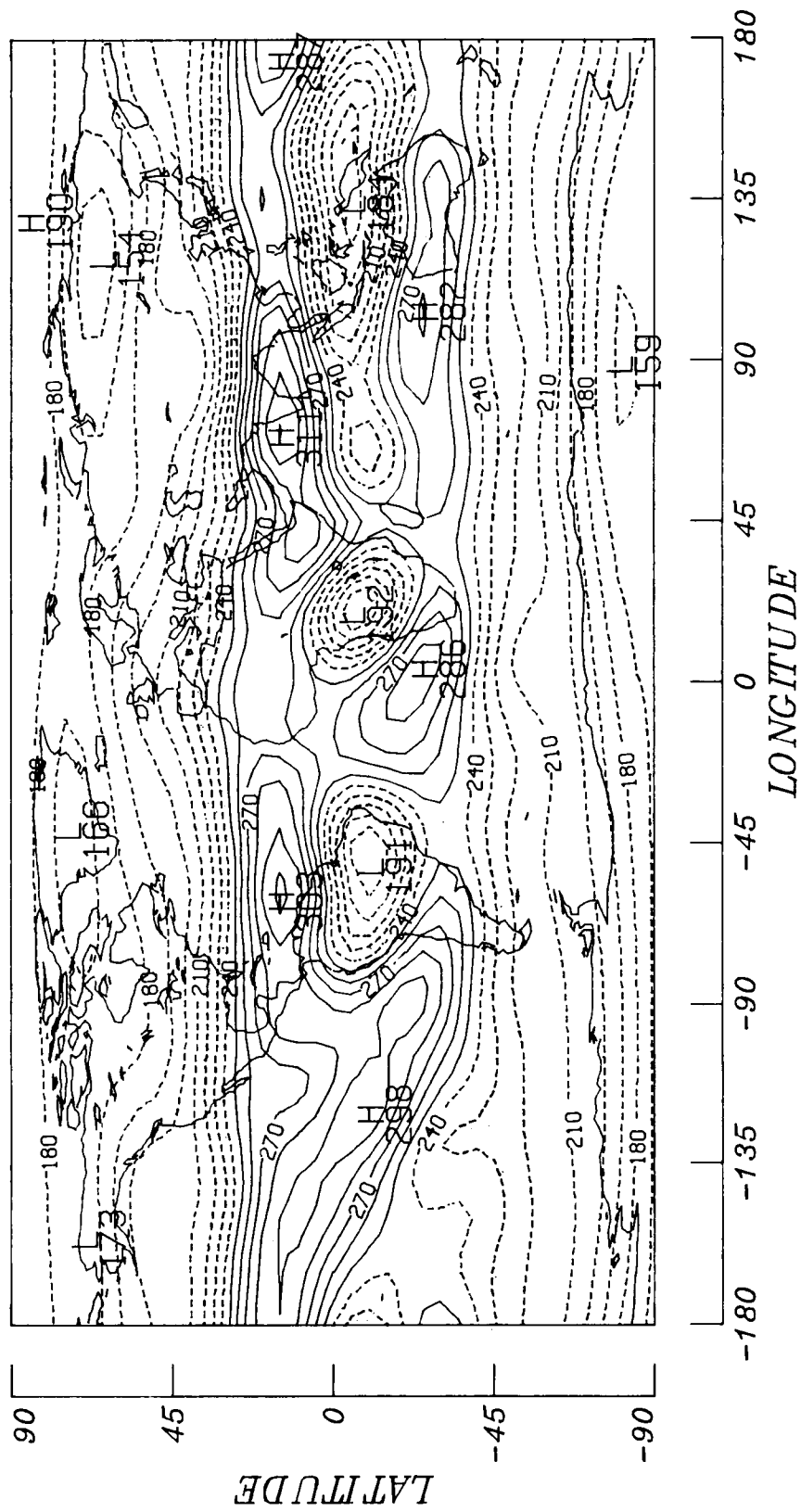


February 1980

| | | | | | | | | | | | | | m/n |
|------------------|---------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 239.331 | .255 | -.170 | -.509 | -.280 | -.563 | .761 | -.126 | .193 | -.155 | .639 | -.092 | .051 |
| 1 | -7.106 | 1.518 | 1.117 | -.522 | .155 | .408 | -.040 | .416 | .584 | -1.177 | 1.079 | -.512 | .493 |
| 2 | -26.315 | .253 | -2.087 | .549 | -.357 | .652 | -.826 | -.629 | .714 | .126 | -.201 | .919 | 1.868 |
| 3 | -2.548 | -.837 | 3.113 | .827 | -.116 | -.666 | .589 | -1.094 | -.410 | 1.756 | -.153 | 1.216 | -1.624 |
| 4 | -2.923 | .498 | 3.371 | -2.687 | 2.627 | -.592 | .694 | 1.022 | -1.102 | -.156 | -.172 | -2.010 | -.939 |
| 5 | 9.050 | -.342 | .436 | .316 | -2.061 | .221 | -1.348 | 1.102 | .644 | -1.404 | -2.223 | -.936 | 1.365 |
| 6 | 6.309 | .140 | .030 | 3.915 | .471 | -.404 | -.145 | -1.439 | 1.679 | .870 | .441 | 4.805 | 2.427 |
| 7 | -5.446 | .248 | -.493 | -.392 | 1.484 | .828 | .110 | .177 | -2.942 | .808 | 2.293 | 1.221 | -3.795 |
| 8 | -5.255 | -.622 | -.516 | -2.702 | -1.247 | .067 | .190 | -.791 | 1.565 | -1.775 | -.950 | -4.084 | .148 |
| 9 | 4.846 | .264 | .298 | .101 | -.305 | -.359 | .147 | -.149 | -.457 | .424 | -1.610 | .012 | 1.901 |
| 10 | 2.638 | .563 | 1.038 | 1.038 | 1.218 | .319 | .130 | .546 | -.633 | -.329 | .261 | 5.565 | -.397 |
| 11 | -.082 | -.644 | -.634 | -.246 | .021 | -.079 | .205 | -.058 | .255 | -.370 | -.027 | .192 | -4.246 |
| 12 | .004 | -.532 | -.530 | -.407 | -.186 | .117 | -.254 | .016 | .001 | .633 | .358 | .863 | .503 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 S_n^m C_n^m

February 1980

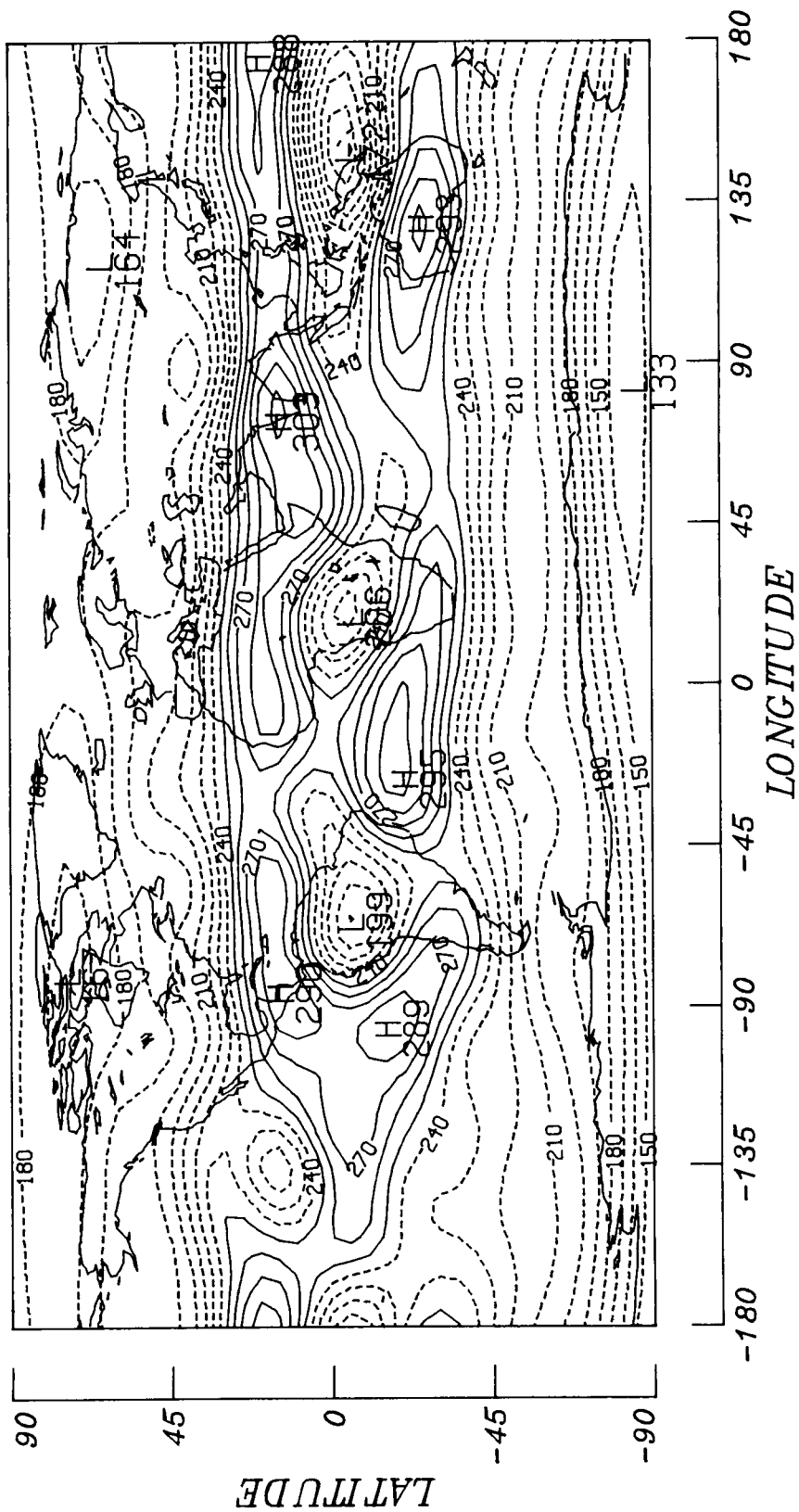


March 1980

| | | | | | | | | | | | | | m/n |
|---------|--------|---------|--------|--------|-------|--------|--------|--------|-------|-------|-------|--------|-------|
| | | | | | | | | | | | | | n |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 |
| 231.459 | -3.929 | -26.887 | .704 | -4.344 | 6.651 | 6.292 | -3.504 | -6.998 | 3.210 | 2.675 | .559 | -1.196 | 12 |
| .044 | 4.032 | .587 | -2.989 | .901 | .688 | .319 | .360 | -.631 | -.415 | .353 | .212 | .314 | 11 |
| -.182 | -.159 | -1.753 | 1.848 | 3.688 | .578 | -1.846 | -.798 | 1.905 | .874 | .388 | -.532 | -.431 | 10 |
| .097 | .242 | .047 | 1.668 | -2.949 | -.800 | 4.052 | .002 | -2.730 | .128 | .125 | -.461 | .632 | 9 |
| .575 | .584 | .156 | -.742 | .305 | -.310 | -.685 | 1.049 | -1.149 | .704 | .162 | .098 | -1.187 | 8 |
| .507 | -.081 | -.304 | -.812 | .305 | -.523 | -.310 | .943 | -.355 | -.027 | .339 | -.248 | -.067 | 7 |
| .269 | .046 | 1.159 | -.742 | -.771 | -.579 | -.579 | .380 | -.355 | -.699 | .510 | .269 | -.271 | 6 |
| .575 | .584 | .156 | -.848 | -.521 | .452 | .723 | .380 | -.355 | -.108 | .269 | .269 | -.271 | 5 |
| -.062 | -.161 | .046 | .806 | -.521 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 4 |
| .932 | .001 | -1.179 | .206 | 2.424 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 3 |
| -1.423 | -.570 | 2.738 | 1.792 | -2.777 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 2 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 1 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 12 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 11 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 10 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 9 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 8 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 7 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 6 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 5 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 4 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 3 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 2 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 1 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 12 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 11 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 10 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 9 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 8 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 7 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 6 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 5 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 4 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 3 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 2 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 1 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 12 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 11 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 10 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 9 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 8 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 7 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 6 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 5 |
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| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 3 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 2 |
| .480 | .332 | 2.142 | -1.927 | -1.419 | .090 | -.685 | .943 | 1.049 | -.108 | .510 | .269 | -.271 | 1 |

 C_n^m S_n^m

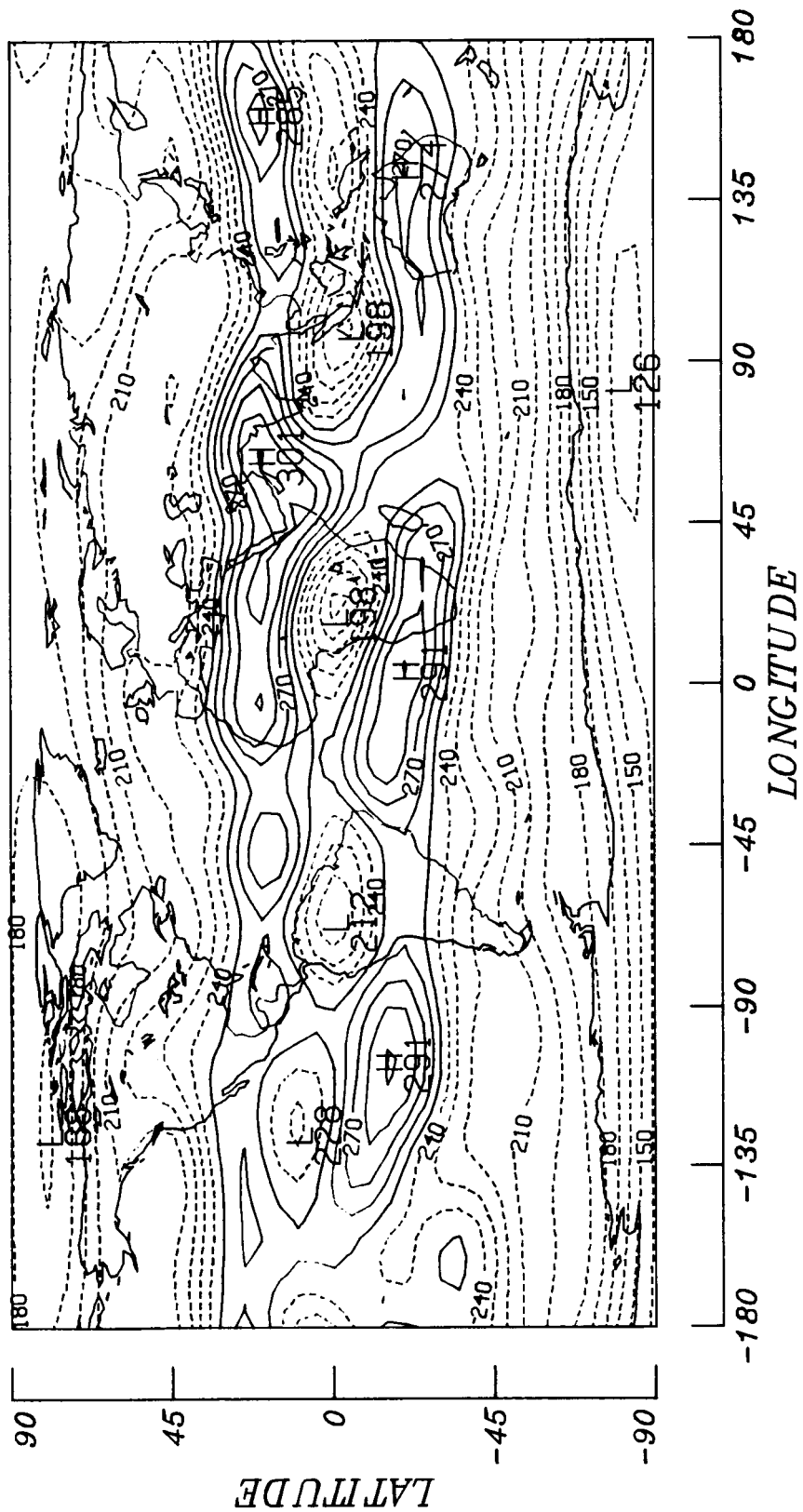
March 1980



April 1980

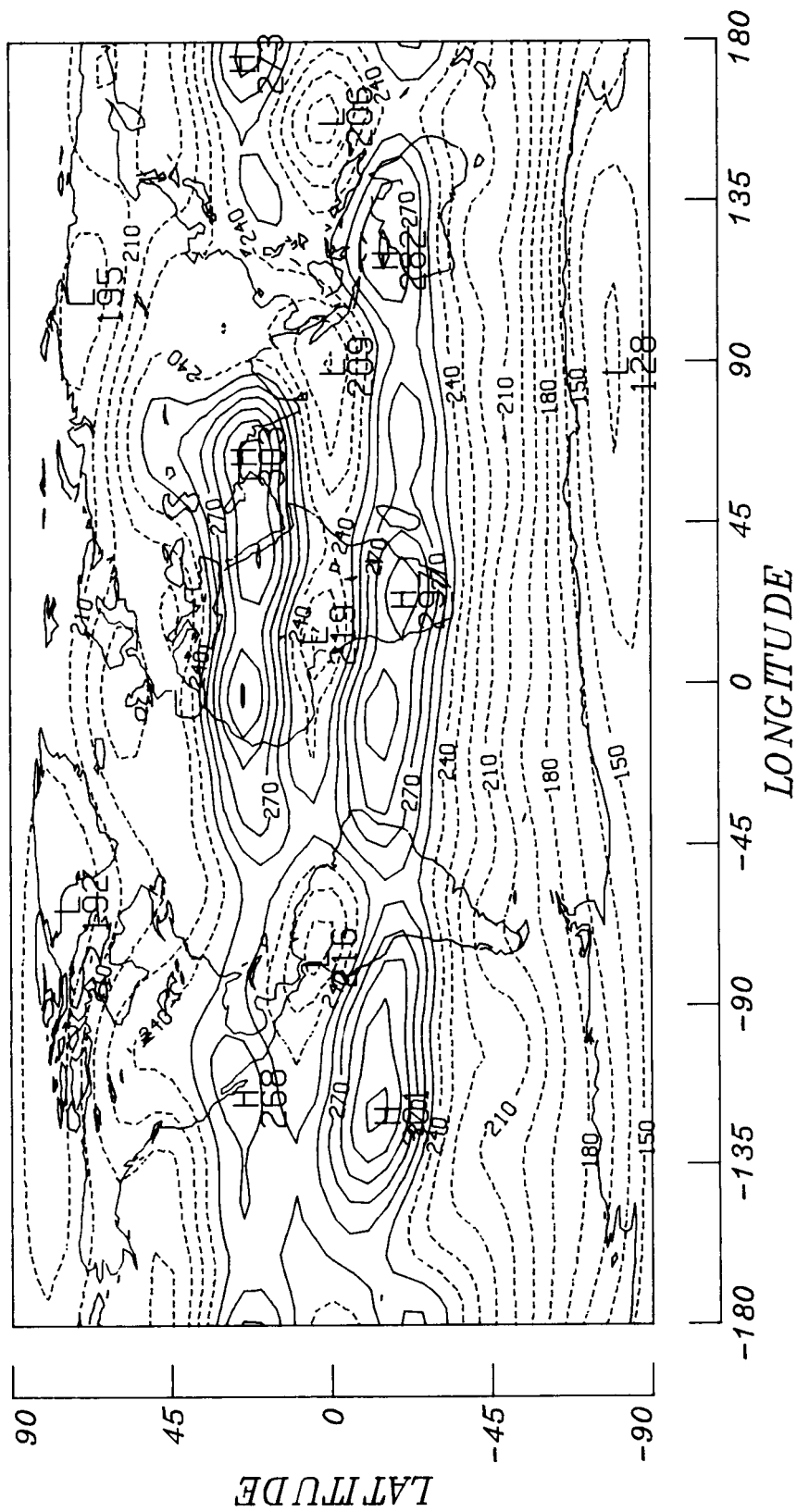
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April 1980



$$S_n^m$$

May 1980



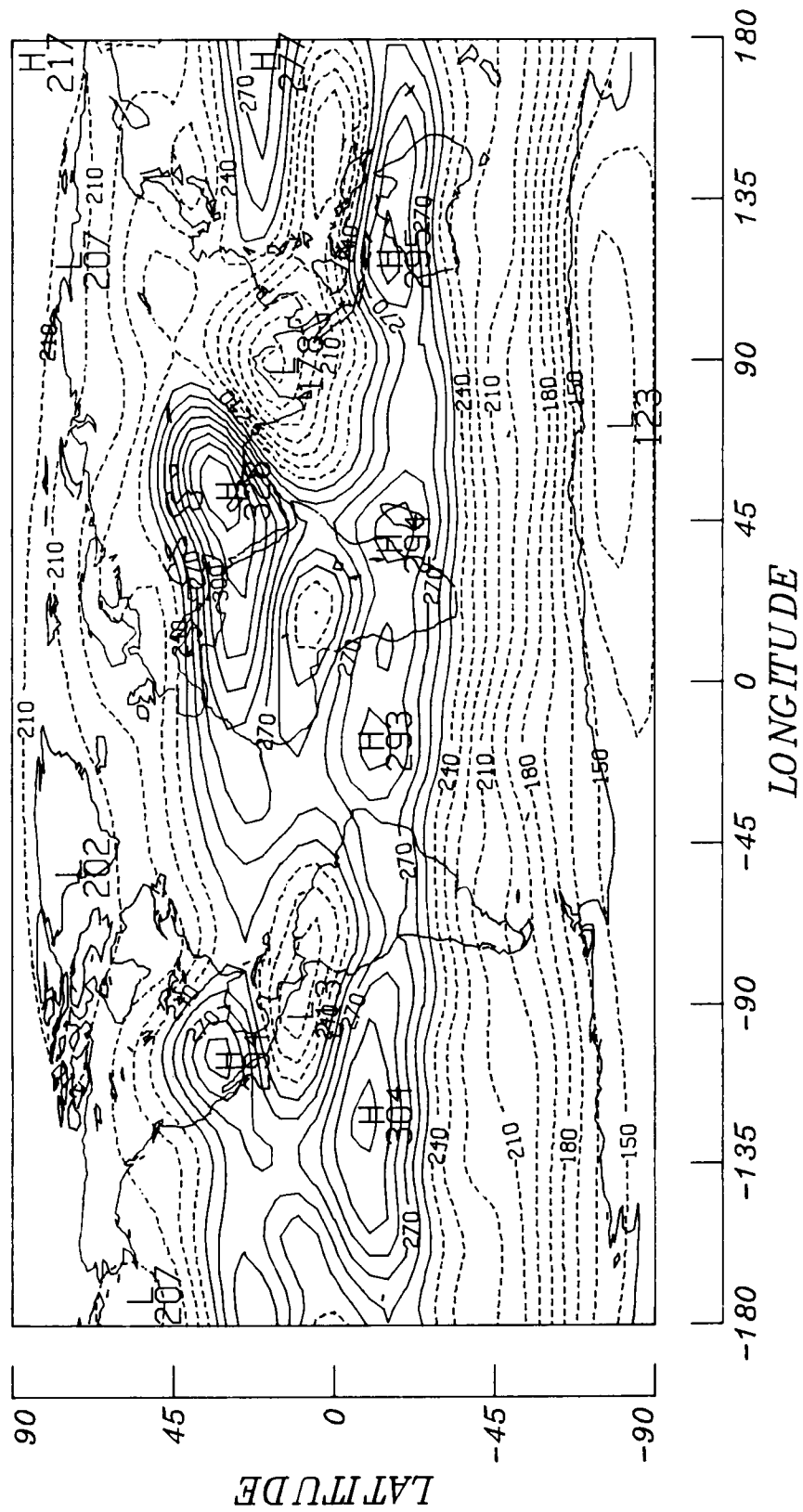
June 1980

| | | | | | | | | | | | | | m/n | |
|---------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|----|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 237.703 | .053 | -.621 | -.121 | -.114 | -.270 | -.395 | -.235 | -.215 | -.301 | -.625 | -1.268 | -.512 | 12 | |
| 1 | 10.686 | 4.025 | .443 | .071 | .043 | -.516 | .498 | .617 | .981 | -.774 | .292 | .298 | 11 | |
| 2 | -25.476 | 3.376 | 4.695 | .729 | .186 | .256 | .681 | .286 | .678 | .584 | 1.090 | 2.420 | 1.250 | 10 |
| 3 | 7.815 | -1.211 | 2.160 | 1.947 | .035 | .343 | .802 | .858 | -.308 | -.108 | 2.228 | 1.027 | -1.005 | 9 |
| 4 | -6.896 | .582 | -2.315 | -.936 | -4.188 | -.161 | .410 | .759 | -1.107 | -.289 | -.128 | -.950 | -.535 | 8 |
| 5 | -4.480 | -2.121 | -4.345 | -1.737 | -2.189 | -1.496 | .153 | .087 | -.673 | -.612 | -2.305 | -1.346 | .527 | 7 |
| 6 | 6.767 | -1.333 | -.666 | 1.872 | .715 | -1.464 | 1.219 | -.827 | -1.231 | -1.064 | -.790 | .012 | .310 | 6 |
| 7 | 6.971 | .534 | 2.663 | 1.521 | .779 | .001 | 1.521 | .325 | -2.577 | -1.830 | 2.212 | -.648 | -4.177 | 5 |
| 8 | -4.270 | .483 | 2.391 | -.486 | .154 | -.025 | .321 | .128 | .604 | -1.515 | 1.695 | .962 | 3.496 | 4 |
| 9 | -4.431 | 1.481 | .183 | -.302 | -.411 | -.614 | .315 | .927 | .274 | .668 | 1.524 | 3.100 | 3.583 | 3 |
| 10 | 2.335 | -.007 | -.624 | 1.011 | -.944 | .023 | .249 | .864 | -.987 | -.408 | -.016 | 6.520 | -.304 | 2 |
| 11 | .935 | -1.920 | -1.045 | -.089 | -.585 | .112 | -.385 | .658 | -.773 | -.194 | .251 | -.521 | -2.320 | 1 |
| 12 | .544 | -.368 | .572 | -.735 | 1.138 | -.106 | -.036 | .164 | -.079 | -.357 | -.106 | .494 | -.134 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

C_n^m

S_n^m

June 1980

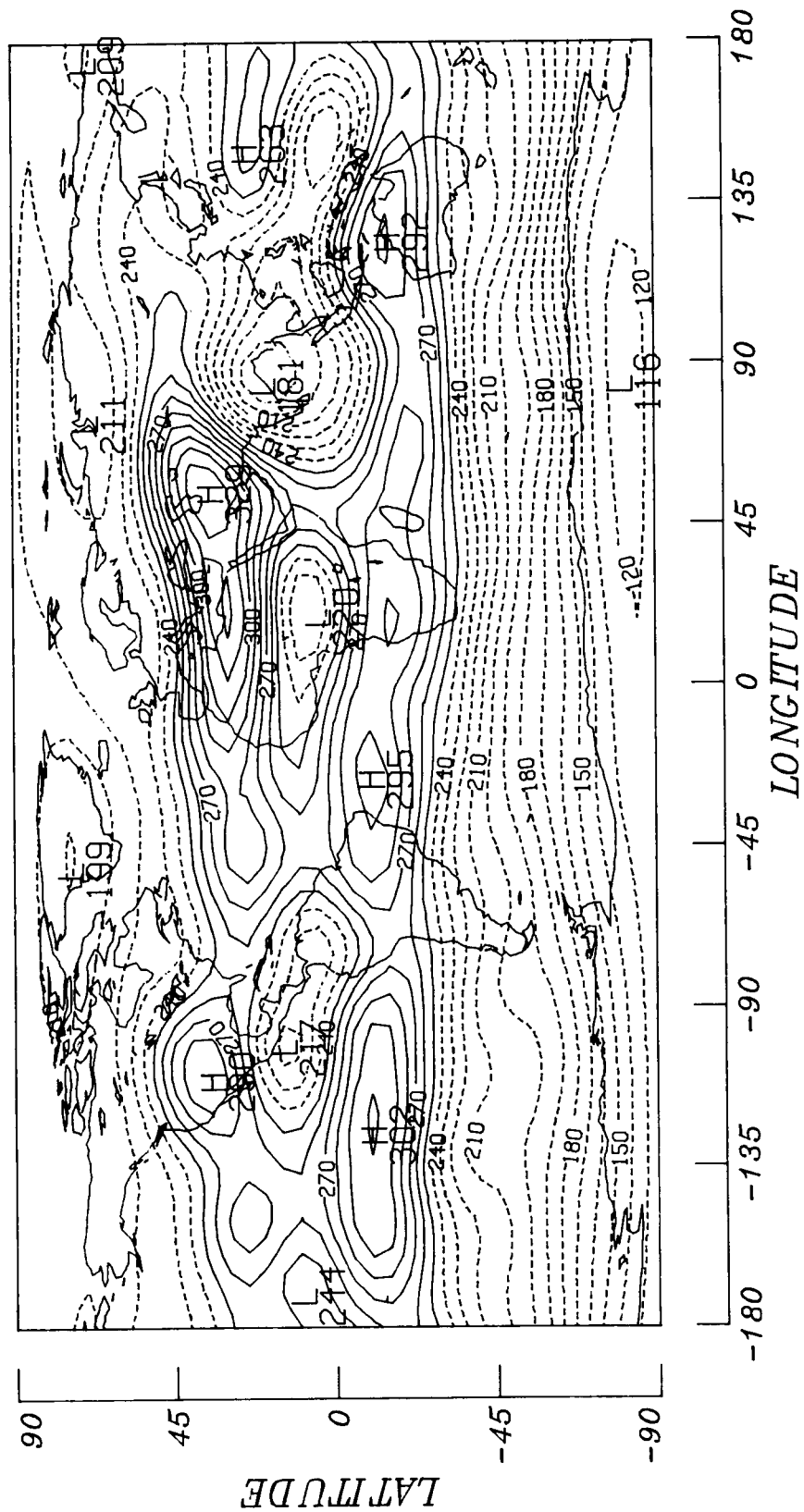


July 1980

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 298.330 | -1.64 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 | -1.32 |
| 1 | 13.642 | 4.406 | .505 | -.460 | .082 | .052 | -.203 | -.850 | .593 | 1.415 | .250 | .769 | .399 |
| 2 | -24.918 | 4.604 | 4.187 | -.317 | -.061 | .485 | .260 | .116 | .243 | .123 | .908 | 1.728 | 1.717 |
| 3 | 8.482 | -1.162 | 2.357 | .287 | .032 | .736 | .134 | 1.009 | -1.035 | -.214 | 1.328 | .235 | -.248 |
| 4 | -7.866 | -.513 | -2.133 | -1.730 | -4.941 | .130 | .546 | .406 | -1.113 | -.770 | -.372 | -.794 | -1.028 |
| 5 | -6.331 | -3.393 | -3.748 | -.980 | -2.393 | -1.233 | 1.082 | -1.017 | .321 | -.736 | -1.769 | -2.057 | .115 |
| 6 | 4.606 | -1.445 | -1.527 | 2.611 | .841 | -.018 | 1.755 | -.072 | -.428 | -1.210 | -.524 | -.684 | .625 |
| 7 | 8.505 | 1.177 | 1.650 | .888 | .743 | .312 | 1.165 | 1.169 | -2.815 | -1.945 | 3.188 | .080 | -3.941 |
| 8 | -2.707 | 1.467 | 2.000 | -1.523 | .004 | -.768 | -.103 | 1.272 | .504 | -.472 | .905 | 1.278 | 4.553 |
| 9 | -3.256 | 1.645 | 1.475 | -.370 | .571 | -.948 | .313 | .845 | .326 | -.309 | .373 | 2.935 | 4.259 |
| 10 | 1.023 | -.166 | .139 | 1.674 | -.132 | .013 | .782 | .467 | -1.024 | -.393 | -.237 | 5.087 | -.934 |
| 11 | .810 | -1.584 | -1.272 | .872 | -1.178 | .811 | .031 | .391 | -.686 | -.402 | -.017 | -.363 | -2.915 |
| 12 | .423 | -.115 | -.372 | -.251 | .523 | .252 | -.410 | .010 | -.112 | -.185 | .153 | -.077 | .178 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

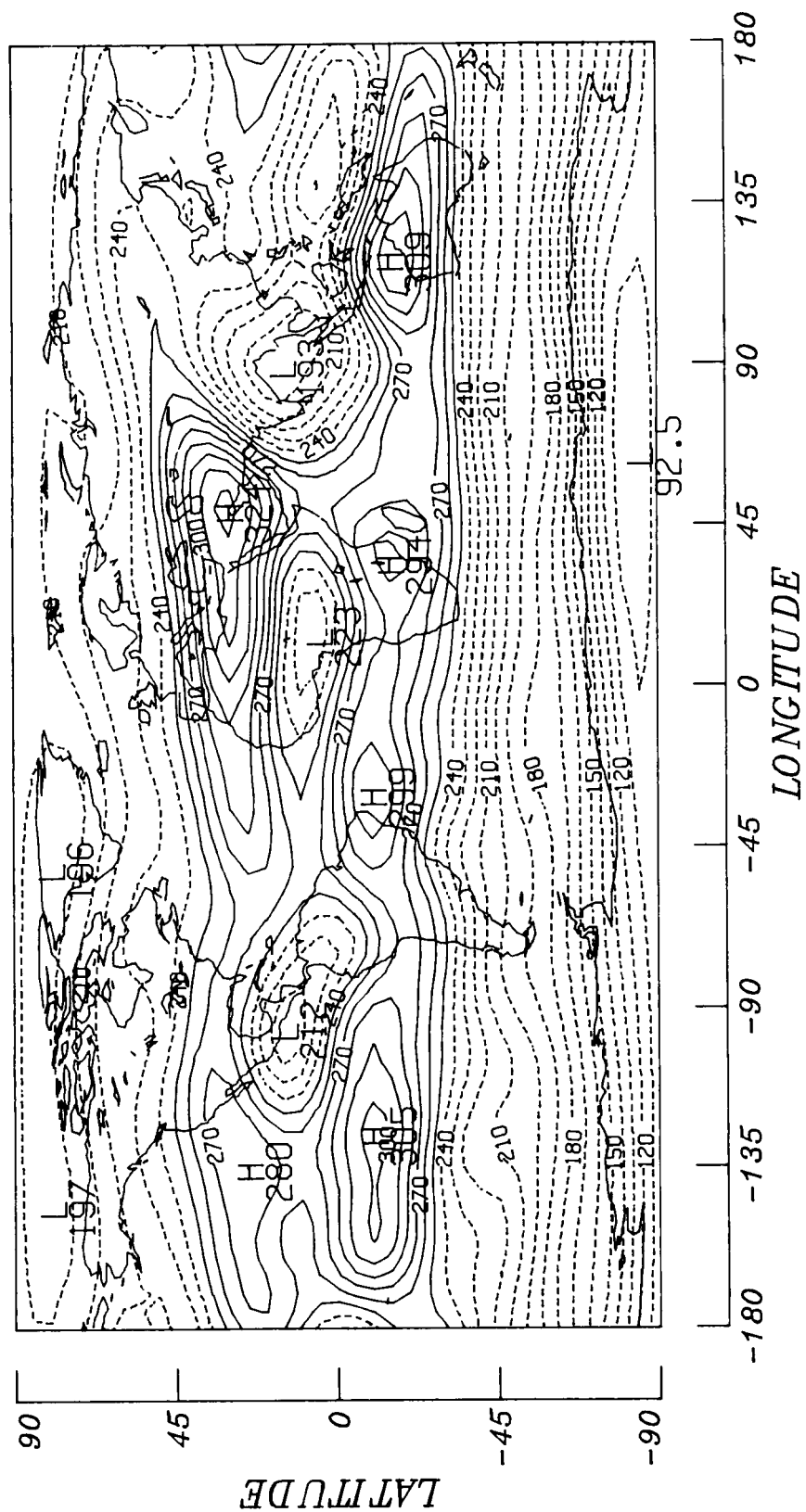
 C_n^m S_n^m

July 1980



$$S_n^m$$
$$C_n^m$$

August 1980

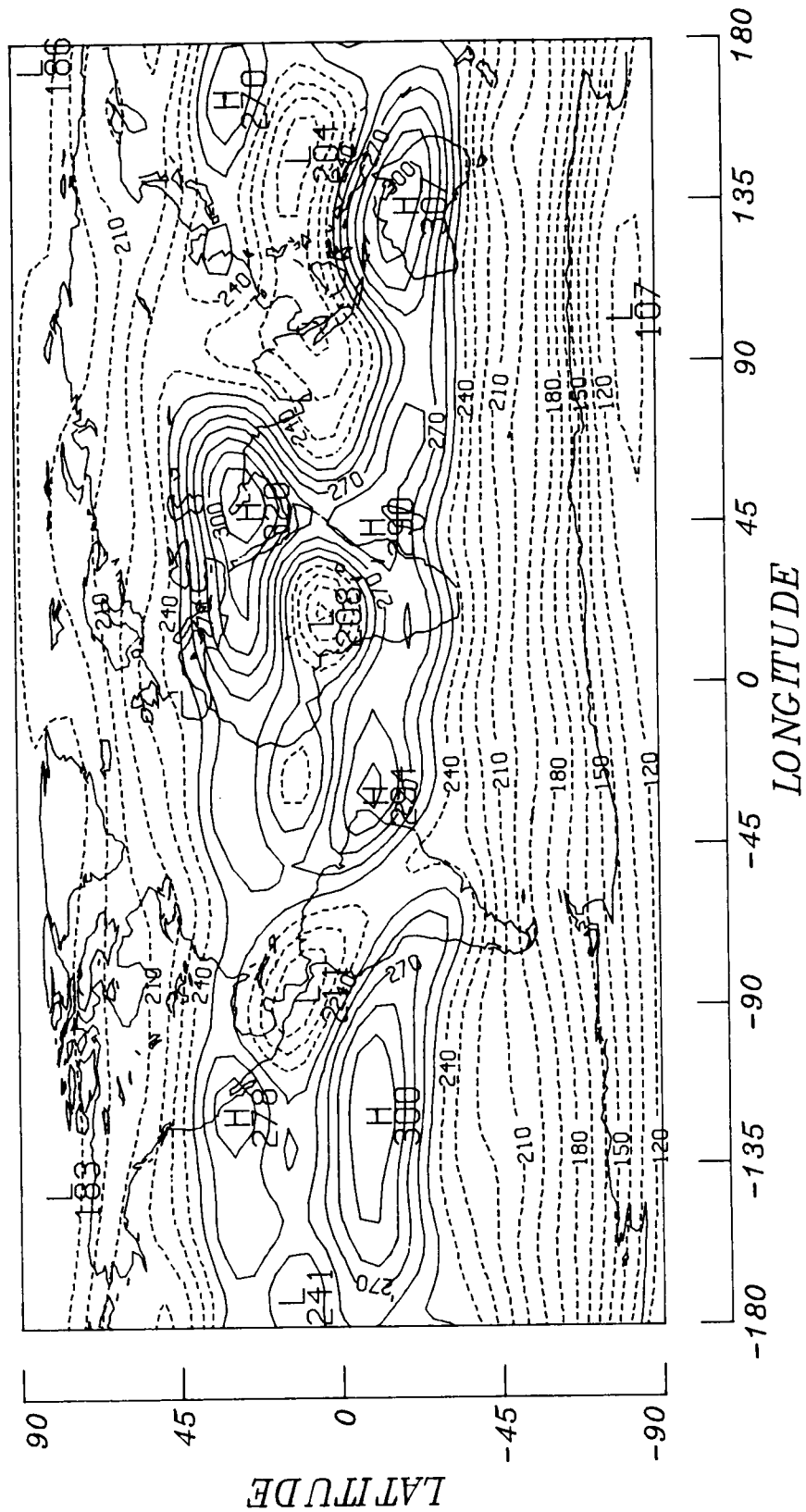


September 1980

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 236.836 | -261 | -0.46 | -1.59 | -2.41 | -2.70 | -3.44 | -1.37 | -1.69 | -6.68 | .504 | .635 | .015 |
| 1 | 8.033 | 1.734 | .469 | -.240 | .259 | .397 | .061 | .009 | .376 | .189 | .328 | -.295 | .433 |
| 2 | -27.616 | 4.247 | 2.221 | .257 | .283 | .593 | .864 | -.110 | 1.321 | .141 | .692 | -.082 | 1.418 |
| 3 | 7.231 | -.459 | 1.823 | .353 | .808 | -.441 | .836 | .353 | -.780 | .942 | 1.259 | .845 | -2.231 |
| 4 | -8.780 | -1.653 | -.345 | -2.258 | -4.567 | -.331 | .413 | .151 | -1.411 | -.488 | -.711 | .179 | .129 |
| 5 | -4.121 | -1.480 | -1.482 | -.913 | -1.883 | -.896 | .179 | -.424 | 1.587 | -.833 | -2.392 | -.569 | 2.062 |
| 6 | 4.155 | .647 | .288 | 2.869 | .981 | -.835 | 2.028 | -.042 | .732 | .382 | .739 | .497 | .550 |
| 7 | 6.613 | .785 | .665 | .882 | -.143 | 1.359 | 1.734 | .911 | -2.907 | -.692 | 1.712 | -2.210 | -3.953 |
| 8 | -3.681 | -.375 | .768 | -1.898 | -.109 | .371 | -.251 | 1.136 | .657 | -1.749 | -.556 | -.740 | 2.776 |
| 9 | -3.261 | -.508 | .543 | -.310 | .921 | -1.056 | -.895 | -.632 | .232 | .749 | -.077 | 4.678 | 2.237 |
| 10 | -.424 | -.010 | .302 | .371 | .610 | .779 | .157 | -.461 | -1.858 | .145 | .437 | 4.942 | .167 |
| 11 | 1.175 | .926 | -1.104 | -.831 | -.486 | .589 | -.083 | .203 | -.567 | -.061 | -.289 | -.419 | .026 |
| 12 | 1.155 | .541 | -.358 | -.075 | -.167 | -.456 | -.217 | .512 | .719 | .625 | -.259 | -.629 | .003 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

September 1980

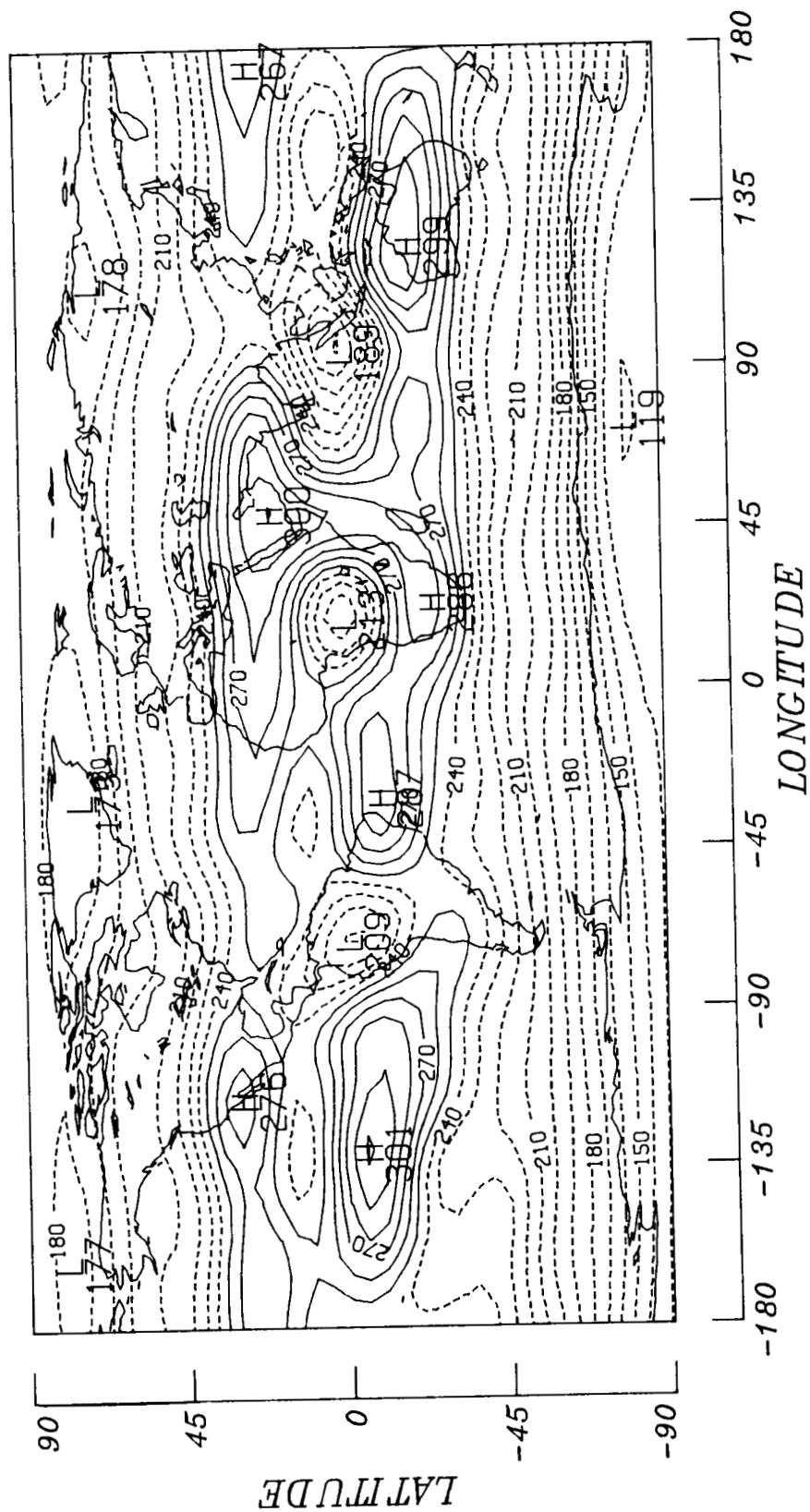


October 1980

| 12 11 10 9 8 7 6 5 4 3 2 1 | | | | | | | | | | | | | m/n | |
|----------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 234.365 | -.385 | -.059 | -.234 | -.468 | -.027 | -.616 | .156 | -.502 | -.467 | 1.263 | -.675 | .018 | 12 |
| 1 | 3.203 | 2.019 | .411 | .242 | .320 | .031 | .152 | -.026 | .893 | -.509 | -.186 | -.314 | 1.147 | 11 |
| 2 | -27.484 | 2.355 | 2.094 | .577 | .147 | .193 | .657 | -.309 | .408 | .082 | -.915 | 1.211 | 1.791 | 10 |
| 3 | 4.213 | -1.506 | 1.318 | .677 | .169 | .056 | -.293 | .249 | -1.071 | 1.065 | 1.524 | .665 | -3.398 | 9 |
| 4 | -8.317 | -.395 | -.540 | -2.066 | -3.232 | -1.120 | -1.016 | .652 | -.396 | -.724 | .680 | -.614 | -.521 | 8 |
| 5 | -.419 | -.851 | -1.051 | -.984 | -.071 | -1.067 | .476 | .222 | 1.683 | -1.508 | -2.112 | .490 | 2.787 | 7 |
| 6 | 4.771 | .719 | .483 | 3.004 | 1.505 | .255 | 1.155 | .327 | -.178 | .989 | .227 | 1.488 | 1.043 | 6 |
| 7 | 4.289 | .898 | .309 | .399 | -.648 | .395 | 1.039 | .887 | -3.685 | -.833 | 1.336 | -1.155 | -3.724 | 5 |
| 8 | -4.650 | -.989 | -.184 | -2.087 | -.881 | -.986 | -.177 | .352 | 1.051 | -3.497 | -.917 | -1.854 | 1.519 | 4 |
| 9 | -2.778 | -.835 | -.050 | -.188 | .848 | -.554 | -.381 | -1.069 | .147 | 1.001 | 1.412 | 3.532 | .893 | 3 |
| 10 | 1.230 | .625 | .473 | .645 | .832 | .091 | .464 | -.013 | -1.159 | -.337 | -.220 | 4.761 | -.658 | 2 |
| 11 | 1.599 | .139 | -1.036 | -.130 | -.521 | .461 | -.037 | .311 | .309 | -.084 | -.058 | -.306 | -.109 | 1 |
| 12 | .945 | .063 | -.243 | .044 | -.080 | .253 | -.402 | .216 | .706 | .761 | .381 | .274 | -.103 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

 C_n^m S_n^m

October 1980

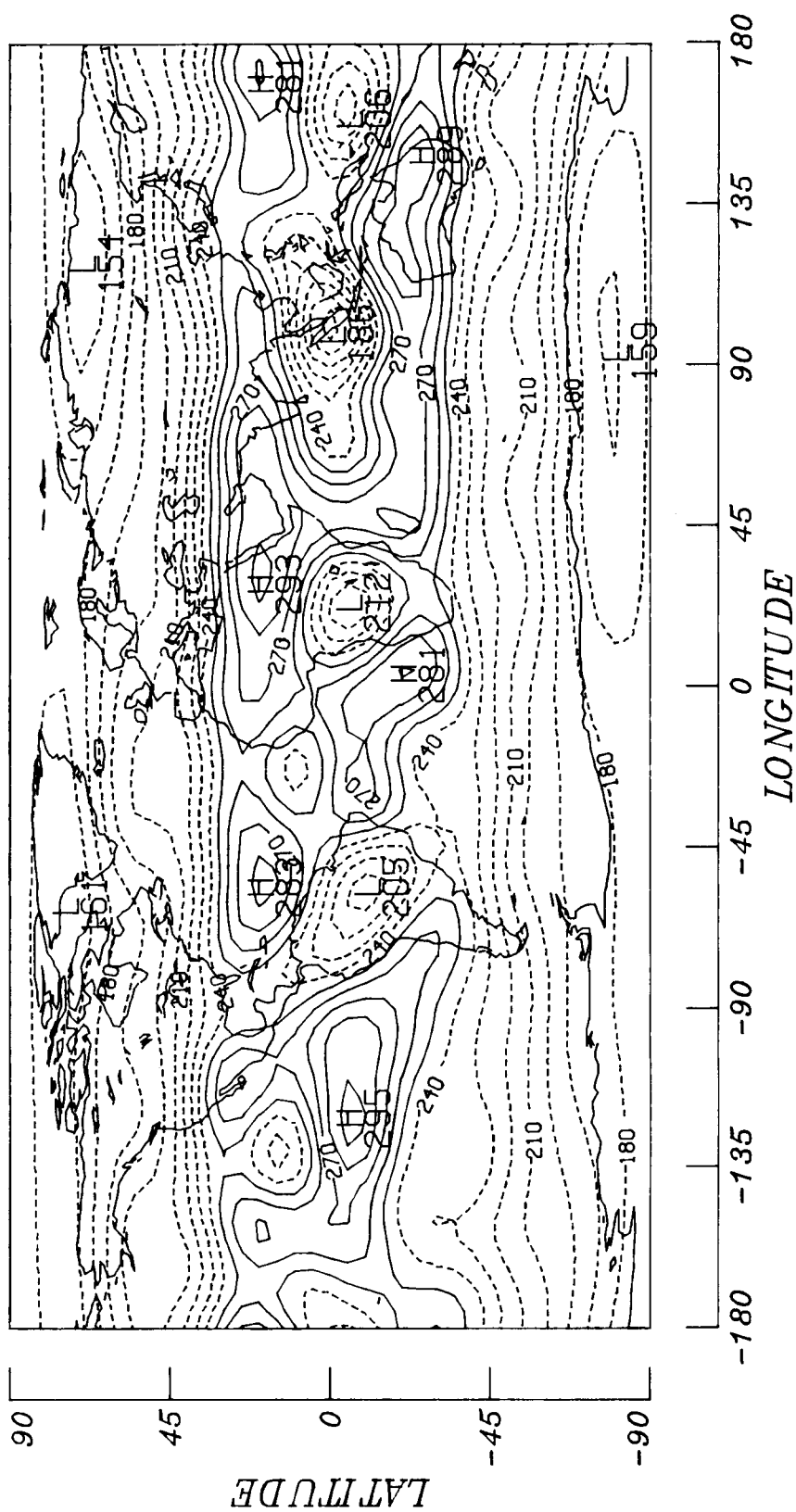


November 1980

| | | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | m/n |
|-------|---------|-------|-------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------|
| 0 | 232.950 | -.808 | .280 | -.156 | .481 | -.073 | .380 | .121 | -.547 | -.298 | 1.489 | -.347 | -.383 | 12 |
| 1 | -3.511 | 1.153 | .446 | -1.408 | .121 | .139 | -.108 | .100 | .398 | -.509 | -.146 | -.436 | 1.291 | 11 |
| 2 | -27.120 | 2.201 | .580 | .514 | -.015 | .466 | .135 | .258 | 1.103 | .389 | -1.144 | .753 | 2.259 | 10 |
| 3 | -1.262 | -.892 | 1.391 | 1.011 | 1.013 | -1.620 | .259 | -.419 | -1.694 | .843 | .224 | 1.167 | -2.787 | 9 |
| 4 | -5.719 | -.080 | .881 | -2.099 | -1.283 | -.387 | -.188 | -.300 | -2.134 | -.800 | .838 | -.345 | -.070 | 8 |
| 5 | 2.565 | .115 | -.618 | -.882 | -1.171 | .602 | -.263 | .473 | 1.896 | -1.133 | -1.197 | -.123 | 3.058 | 7 |
| 6 | 6.303 | 1.328 | 1.291 | 2.989 | 1.288 | -.818 | .650 | 1.449 | 1.878 | 1.429 | -.855 | 2.405 | .274 | 6 |
| 7 | .370 | .579 | 1.421 | 1.095 | .211 | .166 | -.038 | 1.200 | -2.976 | .432 | .595 | -.315 | -3.981 | 5 |
| 8 | -4.365 | -.526 | .038 | -2.519 | -1.000 | -.081 | .923 | .993 | 1.371 | -2.921 | -.543 | -2.254 | .658 | 4 |
| 9 | -.872 | -.413 | -.865 | -1.290 | .404 | -.146 | .140 | -.393 | -.881 | 1.158 | 1.883 | 1.075 | .214 | 3 |
| 10 | 1.983 | -.377 | .274 | 1.365 | 1.153 | .290 | .099 | -.781 | -.633 | -.961 | .735 | 2.912 | -.639 | 2 |
| 11 | 1.292 | -.034 | -.528 | .229 | -.283 | -.148 | -.290 | -.822 | .449 | -.455 | .306 | -.363 | -.079 | 1 |
| 12 | 1.187 | .043 | -.018 | -.132 | -.289 | -.472 | -.709 | .941 | .921 | .591 | 1.059 | -.248 | .479 | |
| n/m | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

November 1980



December 1980

| | | | | | | | | | | | | | m/n | |
|------------------|---------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 0 | 230.317 | .781 | -.066 | .353 | .597 | -.126 | .216 | .216 | -.864 | -.366 | .207 | 1.330 | -.049 | -.007 |
| 1 | -8.351 | 1.366 | .378 | -.405 | -.389 | .156 | -.392 | .340 | .346 | -.894 | 1.010 | -.265 | .507 | 11 |
| 2 | -26.722 | 1.724 | .721 | 1.156 | -1.121 | .515 | -.095 | .438 | .732 | -.131 | -1.106 | .522 | 1.686 | 10 |
| 3 | -2.406 | -.713 | 2.716 | -.861 | .390 | -.399 | -.160 | -.431 | -.755 | 1.943 | .143 | .123 | -2.049 | 9 |
| 4 | -3.389 | .797 | .689 | -2.396 | 1.695 | -.163 | .167 | .194 | -1.303 | -.848 | 1.262 | -1.671 | -1.320 | 8 |
| 5 | 3.620 | .034 | .043 | .341 | -1.745 | .889 | .110 | -.506 | 1.042 | -2.249 | -1.868 | .440 | 3.088 | 7 |
| 6 | 6.383 | .137 | 2.298 | 2.679 | .675 | -1.524 | .052 | -.259 | 1.305 | 1.235 | -1.606 | 2.887 | 1.449 | 6 |
| 7 | -2.324 | -.073 | .903 | -.624 | 1.647 | .523 | .517 | .390 | -2.314 | -.268 | .987 | -.544 | -3.525 | 5 |
| 8 | -3.492 | -.820 | -.772 | -2.354 | -1.247 | .305 | .799 | .321 | .850 | -3.011 | -.978 | -4.078 | 1.344 | 4 |
| 9 | 1.728 | .949 | -.849 | -.808 | -.501 | -.423 | -.305 | -1.242 | -.190 | -.115 | .405 | 1.855 | 1.805 | 3 |
| 10 | 1.428 | 1.170 | .299 | .480 | 1.537 | .523 | -.181 | -.634 | -1.231 | -.051 | -.283 | 4.946 | -.214 | 2 |
| 11 | .307 | -1.508 | .057 | .192 | .070 | .144 | .353 | .557 | .250 | -.847 | .732 | .397 | -1.963 | 1 |
| 12 | .070 | -.654 | .398 | .536 | -.723 | -.018 | -.743 | .119 | .352 | .625 | -.370 | .497 | .023 | |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

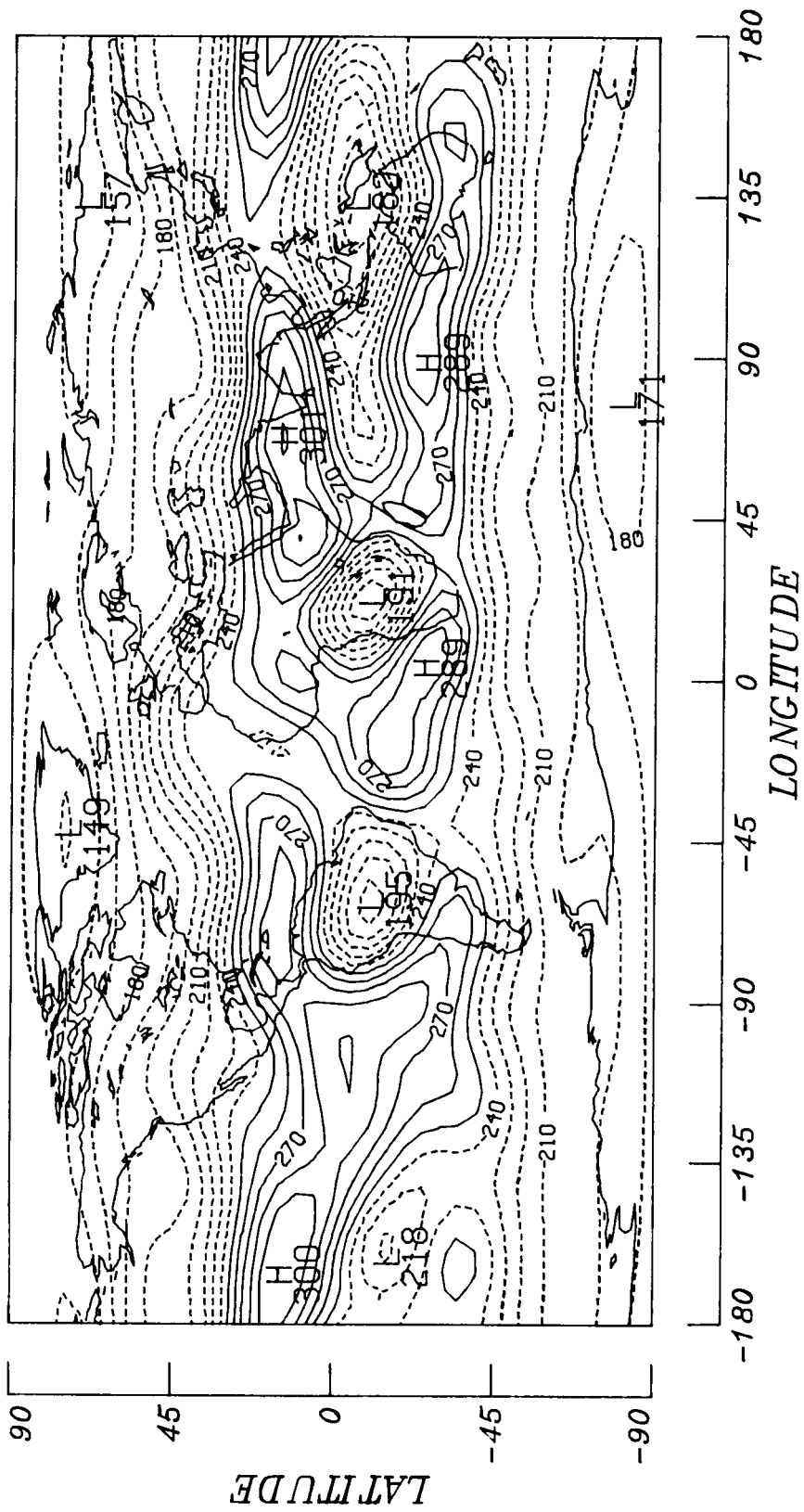
 C_n^m S_n^m

January 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 282.105 | .555 | -.245 | .304 | .145 | -.560 | .022 | -.522 | .386 | .713 | .021 | -.488 | -.040 |
| 1 | -9.098 | 2.087 | .424 | -.984 | .577 | .408 | -.895 | .608 | .985 | -.539 | 1.213 | .554 | .062 |
| 2 | -26.098 | -.060 | -.695 | .511 | -.210 | 1.289 | .035 | .484 | .823 | -.071 | -.215 | .698 | 1.847 |
| 3 | -3.203 | -1.979 | 2.804 | -.697 | -.013 | -.352 | .548 | -1.392 | -.996 | 2.085 | -.243 | .227 | -2.198 |
| 4 | -4.447 | 1.519 | 2.133 | -3.328 | .325 | .403 | .188 | .288 | -2.007 | -.868 | .657 | -1.099 | -.964 |
| 5 | 6.545 | .214 | -.733 | 1.210 | -1.855 | -.532 | -.328 | 1.009 | .987 | -3.821 | -1.335 | .466 | 2.975 |
| 6 | 5.745 | -1.718 | .176 | 4.066 | .289 | .672 | .071 | -1.703 | .841 | .172 | -.756 | 4.410 | 1.717 |
| 7 | -6.188 | -.114 | -.432 | .282 | 1.724 | 1.148 | .176 | 1.424 | -2.325 | 1.759 | 2.108 | .679 | -3.785 |
| 8 | -3.245 | .185 | -.838 | -2.295 | -.856 | -.943 | .831 | -.298 | 2.061 | -3.235 | -.550 | -4.687 | -.088 |
| 9 | 3.725 | .016 | .130 | -.923 | .341 | -.429 | .073 | -.488 | -.898 | 1.016 | -1.634 | .758 | 1.582 |
| 10 | 1.358 | 1.160 | .510 | .890 | 1.521 | .453 | .376 | .041 | -1.369 | -.004 | .304 | 5.947 | -.166 |
| 11 | -.260 | -.356 | -.632 | .976 | -.673 | -.131 | .020 | .198 | .790 | .386 | .579 | -.020 | -3.398 |
| 12 | .142 | -.974 | .259 | .217 | -7.739 | -.238 | -.375 | .690 | -.449 | -.280 | -.892 | .839 | .459 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

January 1981

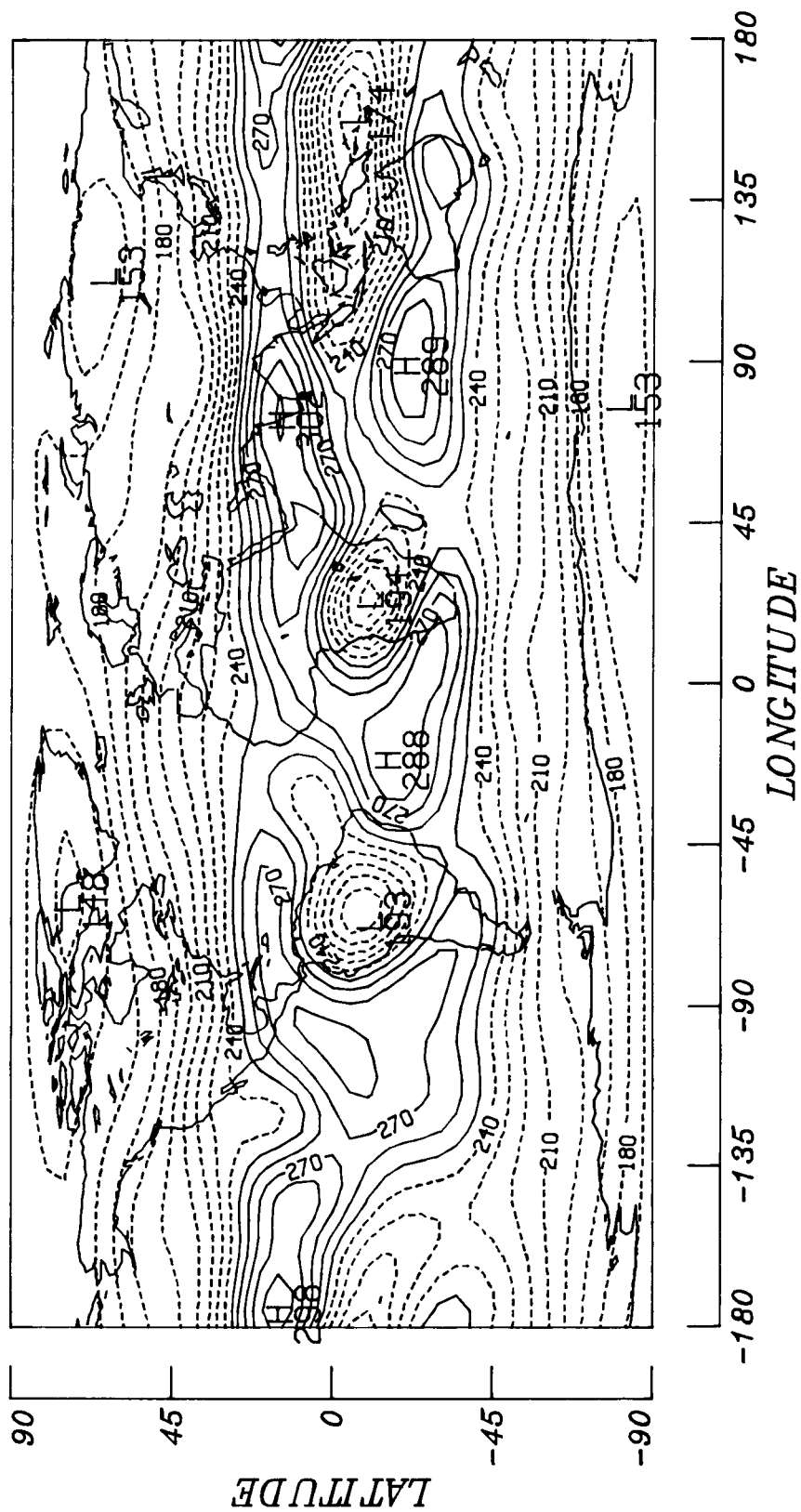


February 1981

| n | C_n | | | | | | | | | | | | m |
|-----|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.054 | .392 | -.428 | -.091 | .134 | -.246 | .429 | -.024 | -.294 | -.099 | .781 | -.779 | -.070 |
| 1 | -9.706 | 3.682 | -.128 | .301 | -.081 | .286 | -.707 | .279 | .637 | -.627 | 1.202 | .282 | .684 |
| 2 | -27.016 | -.087 | -1.734 | .323 | -.228 | .929 | .431 | .109 | .513 | -.443 | -.912 | 1.617 | 2.140 |
| 3 | -1.411 | -1.828 | 2.881 | 1.434 | -.539 | -1.238 | .089 | -1.089 | -1.091 | 2.100 | -.390 | .202 | -2.391 |
| 4 | -5.886 | 2.267 | 2.671 | -3.510 | 3.073 | .061 | .079 | .171 | -.467 | .023 | 1.594 | -1.813 | -.985 |
| 5 | 8.492 | .919 | -.053 | -.300 | -1.926 | .222 | .197 | .486 | 1.988 | -2.115 | -1.275 | .336 | 1.279 |
| 6 | 5.536 | -1.494 | .693 | 3.559 | -.300 | .288 | -.852 | .115 | -.088 | .510 | -2.366 | 4.671 | 3.291 |
| 7 | -5.168 | -.912 | .603 | -.099 | .604 | .417 | .492 | .675 | -2.455 | 2.702 | 2.197 | .081 | -1.537 |
| 8 | -4.039 | .232 | -.252 | -1.710 | -1.069 | -.507 | .449 | .276 | 1.928 | -3.110 | .305 | -4.262 | -.390 |
| 9 | 3.680 | .803 | -.916 | -.605 | .462 | -.170 | -.357 | -.930 | -.341 | .154 | -2.214 | 1.561 | .210 |
| 10 | 2.053 | -.063 | .708 | -.110 | 1.162 | .687 | .636 | .617 | -1.299 | -.701 | .582 | 4.811 | .849 |
| 11 | -.594 | -.722 | .472 | .726 | -.377 | .340 | .047 | .259 | .007 | -.395 | -.171 | -.760 | -1.705 |
| 12 | -.221 | -.017 | -.355 | .120 | -.431 | -.202 | -.684 | -.062 | .188 | .614 | .268 | -.073 | .037 |
| n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 S_n^m C_n^m

February 1981

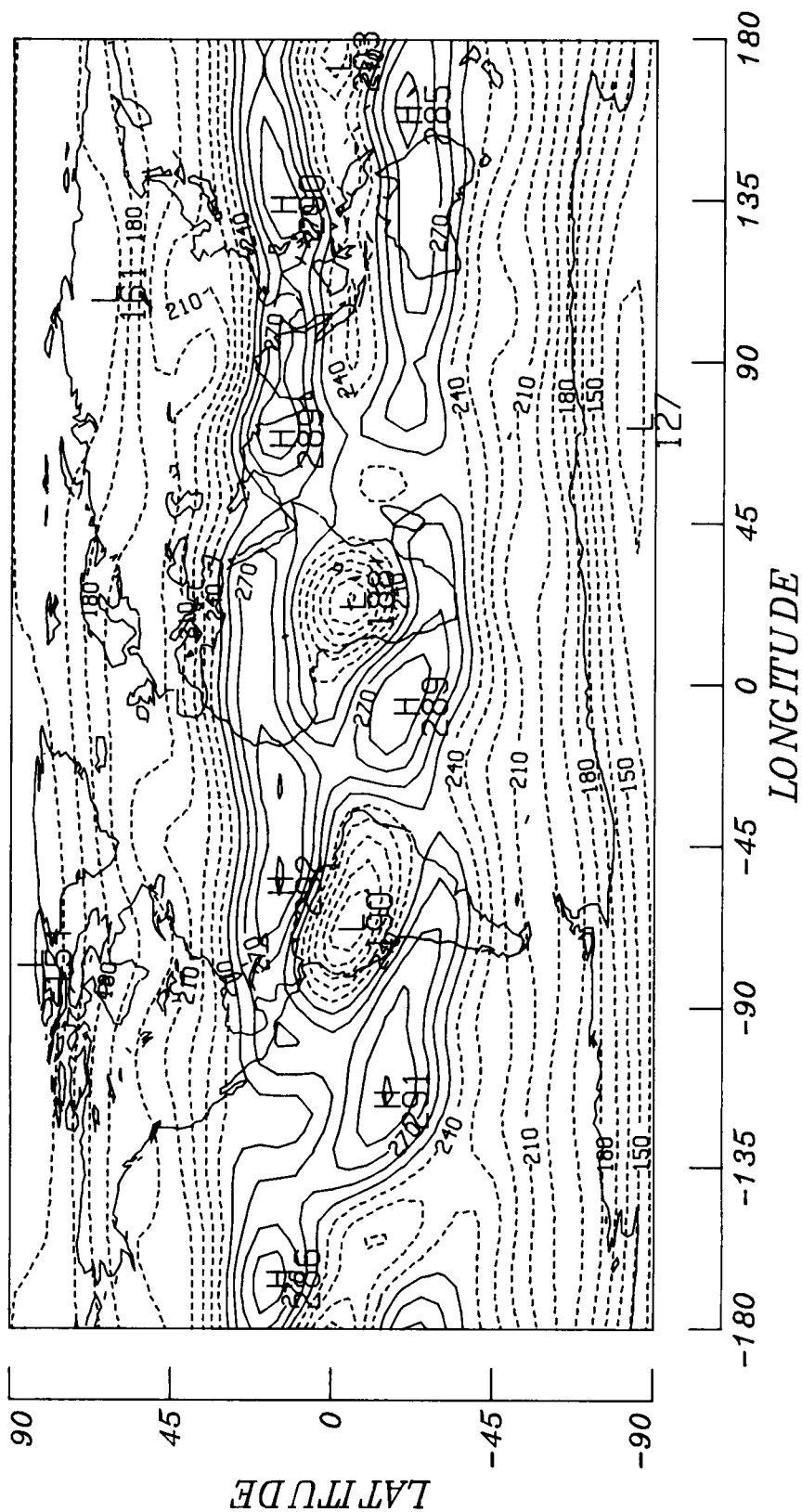


March 1981

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.350 | 1.107 | -.312 | -.304 | -.410 | -.120 | -.193 | -.151 | -.026 | .356 | .158 | -.929 | .441 |
| 1 | -4.369 | .208 | .630 | -.071 | -.214 | -.211 | .744 | 1.222 | .265 | -1.245 | .187 | -1.091 | .587 |
| 2 | -22.165 | 1.503 | .061 | .938 | -.217 | .104 | .283 | .001 | .213 | -.226 | .254 | 1.628 | 1.846 |
| 3 | .729 | -.278 | .762 | 2.789 | -.679 | -.168 | -.375 | -1.187 | -.541 | 1.980 | 1.364 | 1.678 | -.987 |
| 4 | -6.298 | -.213 | 2.070 | -1.808 | .502 | -.581 | .016 | .170 | -.212 | -.908 | -.854 | -.932 | .110 |
| 5 | 5.889 | -.597 | -.570 | -1.884 | -1.787 | .151 | -.274 | 1.514 | 1.402 | -2.228 | -2.776 | -1.083 | -.285 |
| 6 | 4.940 | .690 | -1.372 | 2.995 | 1.001 | .558 | .366 | .182 | -.173 | 2.546 | 1.068 | 1.095 | 1.650 |
| 7 | -3.417 | .593 | .130 | .820 | 1.100 | .450 | -1.140 | .472 | -1.895 | 1.575 | 2.701 | .727 | -1.317 |
| 8 | -7.242 | -.593 | 1.546 | -1.729 | -1.416 | -.673 | .709 | .142 | .696 | -3.996 | -1.799 | -.030 | .587 |
| 9 | 2.619 | .133 | 1.140 | -.441 | -.782 | -.726 | .596 | -.570 | -.717 | .598 | -.190 | .584 | -1.187 |
| 10 | 3.339 | .303 | .427 | .601 | 1.530 | -.658 | .014 | -.462 | -.809 | -1.064 | -.062 | -.443 | -.376 |
| 11 | .010 | -1.190 | -1.309 | -.218 | .347 | -.118 | -.285 | 1.019 | .186 | .013 | -.151 | .866 | -1.163 |
| 12 | -.898 | .156 | -.406 | .429 | -.921 | .756 | -.466 | -.018 | .269 | .513 | .883 | .483 | -.677 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

March 1981

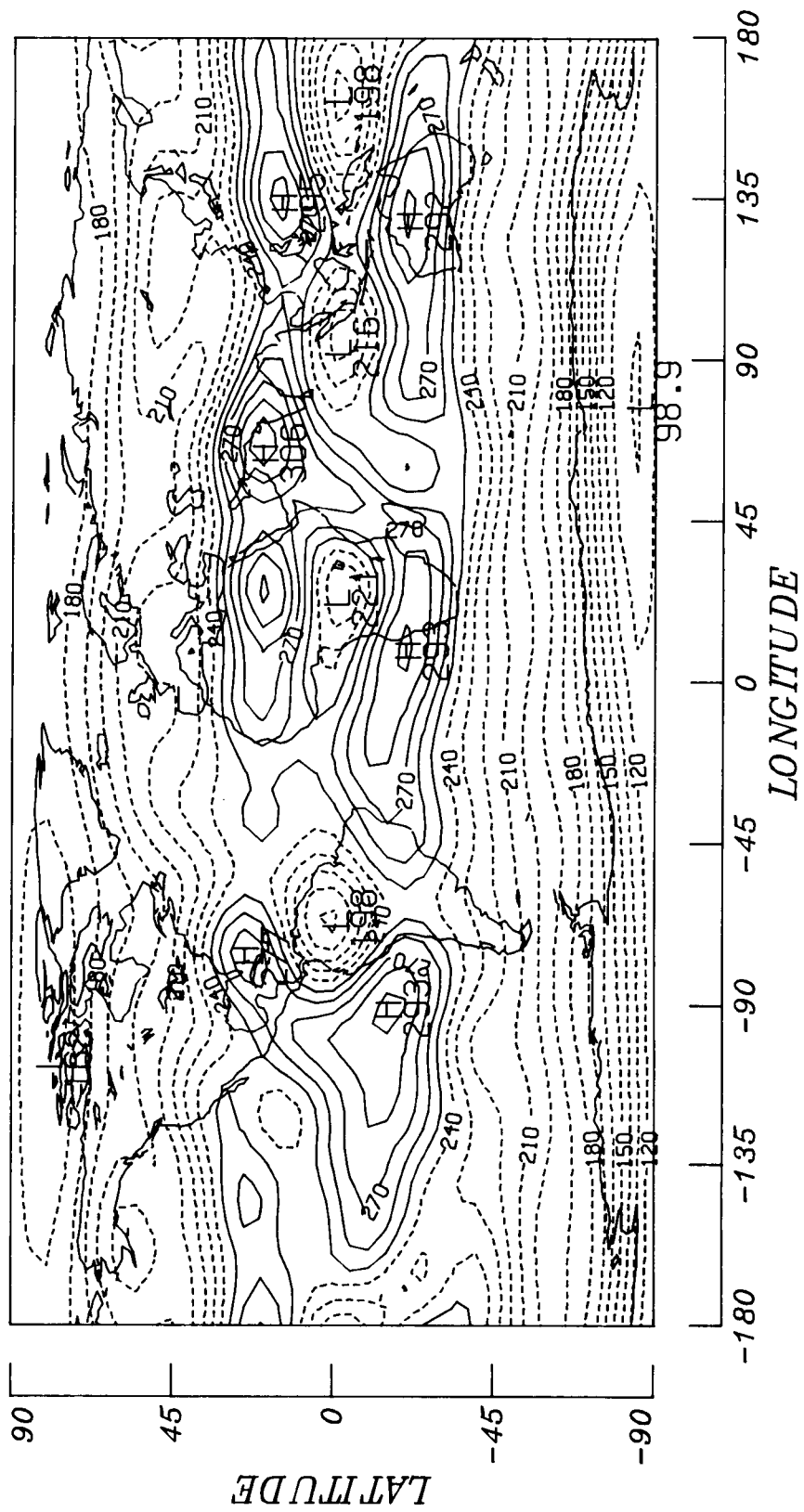


April 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 232.819 | -.040 | -.720 | -1.072 | .435 | .727 | .180 | .306 | -.793 | -.556 | .936 | -1.105 | .797 |
| 1 | .841 | 2.690 | -.002 | -.626 | .103 | -.135 | .006 | .603 | .970 | -.012 | -.799 | -1.417 | .827 |
| 2 | -28.460 | 1.682 | -.624 | -.117 | -.284 | .422 | .001 | .302 | .049 | .718 | -1.060 | 1.661 | 2.524 |
| 3 | 4.091 | -1.303 | .620 | 3.365 | -.023 | .056 | -.136 | -.277 | -1.308 | .449 | 1.495 | 1.345 | -2.505 |
| 4 | -7.333 | .985 | 1.439 | -1.509 | -.759 | -.312 | .140 | -.407 | -.453 | -.478 | .708 | -.792 | -2.161 |
| 5 | 2.428 | -.602 | -.391 | -1.846 | -.229 | .360 | 1.259 | .662 | 2.244 | -.027 | -2.565 | -.092 | .660 |
| 6 | 3.846 | -.850 | .040 | 3.485 | .572 | 1.195 | -.701 | 1.542 | -.605 | 1.069 | -.735 | 1.291 | 4.013 |
| 7 | .177 | .211 | .777 | 1.403 | -.477 | .740 | .379 | -.506 | -3.599 | -.086 | .760 | -.919 | -2.211 |
| 8 | -7.513 | .761 | 1.158 | -.945 | -.567 | -.419 | -.061 | -.675 | 1.168 | -2.170 | -.129 | -1.343 | .124 |
| 9 | .716 | -.350 | .162 | .094 | .542 | -1.198 | -.065 | -1.472 | -.744 | .390 | 1.858 | 1.301 | -.457 |
| 10 | 3.389 | .071 | .399 | -.894 | .974 | -.843 | .689 | .094 | -.284 | -1.093 | -.454 | 2.968 | 1.296 |
| 11 | 1.474 | -.305 | -.983 | -.937 | .163 | .525 | -.558 | .673 | -.187 | .370 | .373 | -.242 | .999 |
| 12 | -.623 | .344 | .395 | 1.109 | -.326 | .944 | -.970 | .030 | -.237 | .482 | .907 | .650 | -.374 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

April 1981

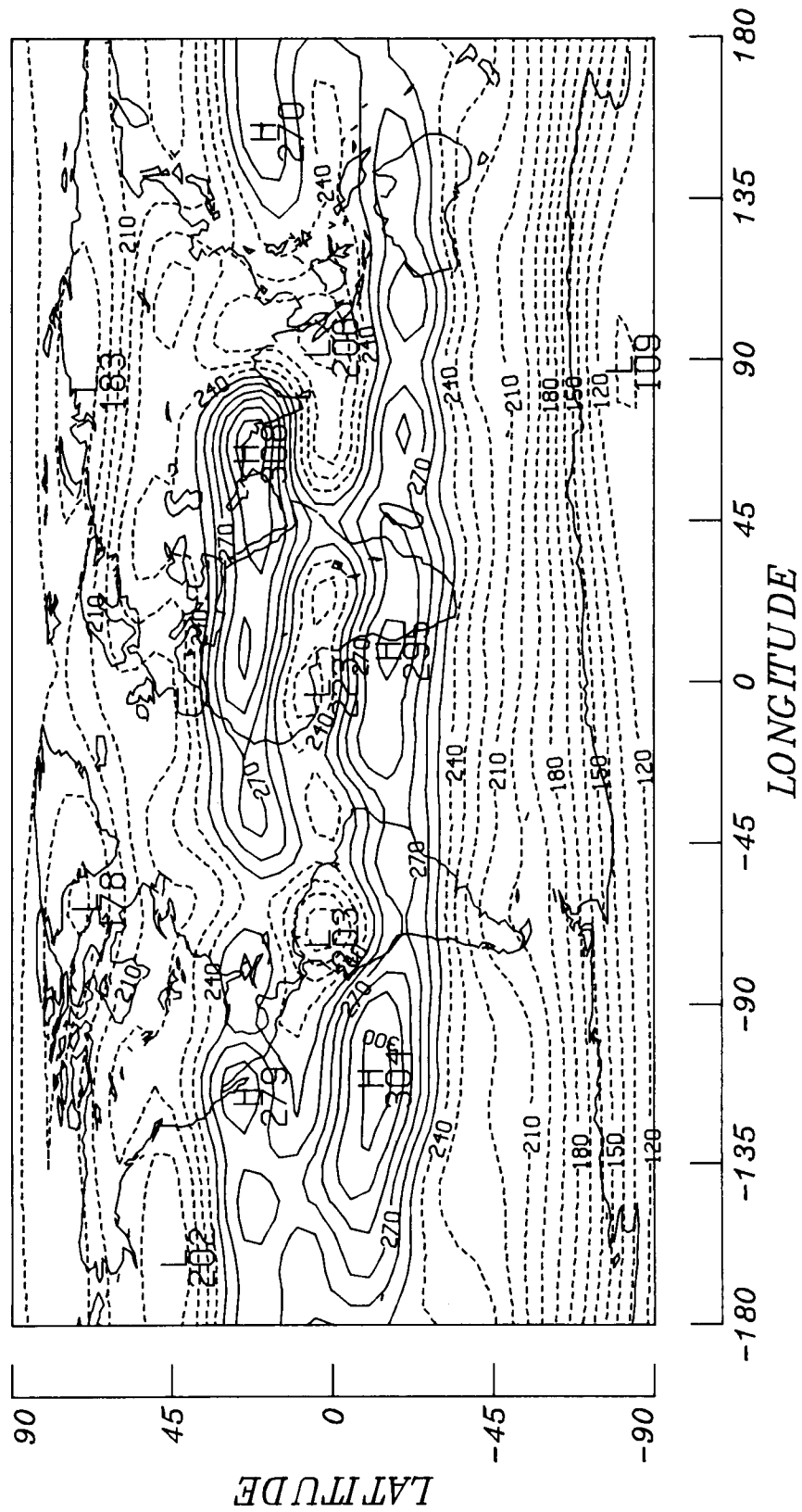


May 1981

| n | C_n^m | | | | | | | | | | | | m |
|-----|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.141 | .519 | -.494 | -.560 | .099 | -.124 | -.233 | .648 | -.322 | -.294 | -.004 | -.598 | -.015 |
| 1 | 5.952 | 1.784 | .692 | .123 | -.173 | .203 | -.085 | -.150 | .552 | -.983 | -.254 | -1.861 | 1.305 |
| 2 | -27.041 | 1.769 | 2.206 | .475 | .366 | .380 | .056 | -.593 | .201 | -.280 | .243 | .261 | 1.754 |
| 3 | 6.416 | .685 | .947 | 1.406 | -.646 | -.180 | .888 | -.224 | -.415 | .904 | 1.125 | 1.651 | -1.406 |
| 4 | -6.548 | 1.383 | -1.311 | -1.529 | -2.091 | -.369 | .759 | .350 | -.008 | .278 | .347 | .827 | -1.298 |
| 5 | -.453 | -3.520 | -2.430 | -1.070 | -1.328 | -.499 | .836 | .588 | .428 | .282 | -.416 | .044 | -.298 |
| 6 | 3.544 | -1.570 | .845 | 2.423 | 1.120 | .821 | -.160 | .912 | -.435 | -.276 | -.013 | .852 | 1.918 |
| 7 | 4.051 | 2.436 | 1.478 | 1.223 | .708 | -.037 | .311 | .378 | -1.359 | -1.309 | .586 | -.859 | -3.371 |
| 8 | -6.564 | .297 | .835 | -1.198 | -.428 | -.481 | .602 | -.786 | .544 | -2.683 | -.152 | -.373 | 1.144 |
| 9 | -2.305 | -1.292 | 1.275 | -.621 | -.872 | -1.382 | .386 | -.550 | -.123 | .442 | 1.282 | 2.085 | 1.983 |
| 10 | 4.036 | .133 | 1.305 | .798 | -.163 | -.895 | -.195 | .375 | -1.221 | .751 | -.058 | 5.739 | 1.774 |
| 11 | 2.504 | .524 | -1.361 | .838 | .457 | .451 | -.318 | .382 | -.295 | .682 | .647 | -.980 | -2.136 |
| 12 | .244 | .542 | -.319 | .585 | .356 | .405 | -.354 | -.153 | .721 | .210 | 1.099 | -.409 | -.770 |
| n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

May 1981

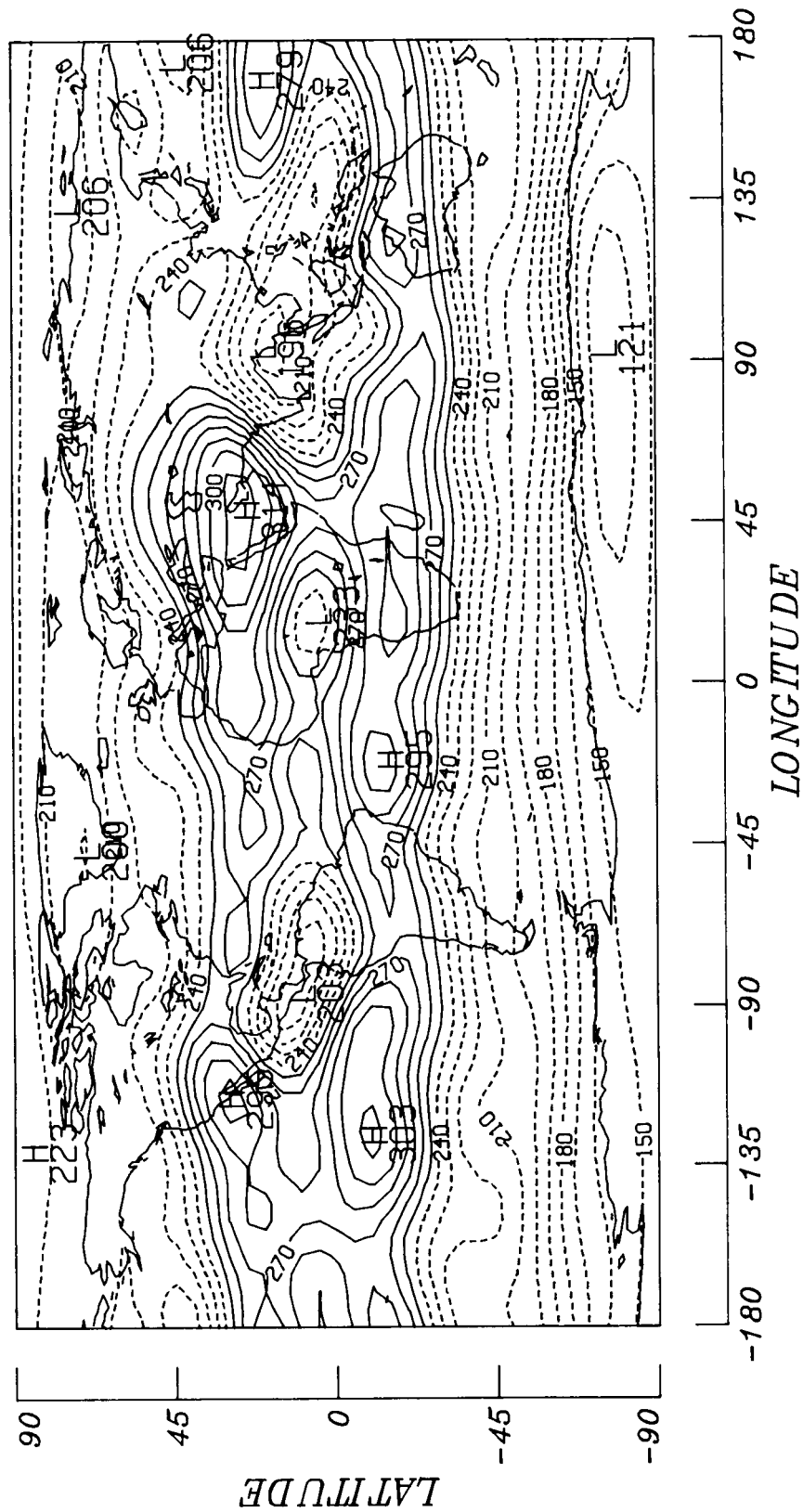


June 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | | | | | | | | | | | | | n |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 237.526 | -.106 | -.514 | -.274 | -.601 | -.683 | -.330 | -.237 | -.537 | .042 | -.328 | -.307 | -.395 |
| 1 | 11.250 | 4.363 | -.196 | -1.218 | -.066 | -.409 | -.164 | -.897 | .383 | -.063 | -.528 | .105 | .145 |
| 2 | -25.573 | 2.850 | 3.476 | .257 | .026 | .182 | .287 | .170 | .289 | -.704 | .407 | 1.518 | 1.552 |
| 3 | 7.048 | -.576 | 2.293 | .355 | .290 | .504 | .015 | .405 | -.656 | .041 | 1.401 | .732 | -1.293 |
| 4 | -5.378 | .957 | -2.779 | -1.380 | -2.878 | -.749 | -.372 | -.637 | -.714 | -.474 | -.594 | -.889 | -1.428 |
| 5 | -3.830 | -3.224 | -3.982 | -.305 | -2.558 | -1.504 | .432 | -.844 | -.075 | -.343 | -1.757 | -.386 | -.030 |
| 6 | 4.583 | -2.101 | .382 | 1.707 | -.164 | -.538 | 1.487 | -.956 | -.287 | .345 | .161 | .006 | .481 |
| 7 | 6.462 | .385 | 2.054 | .007 | 1.040 | .781 | 1.448 | .334 | -.932 | -.996 | 1.666 | -1.071 | -3.332 |
| 8 | -4.083 | .456 | 2.001 | -1.014 | .499 | -.370 | -.001 | 1.734 | .411 | -3.078 | -.022 | -.726 | 3.217 |
| 9 | -4.088 | .724 | -.183 | -1.580 | .130 | -1.008 | .831 | -.002 | -.749 | .465 | .607 | 4.097 | 2.799 |
| 10 | 2.618 | -.021 | -1.563 | .117 | -.504 | -.254 | -.287 | -.632 | -1.017 | .563 | -.170 | 8.304 | .166 |
| 11 | 1.507 | -.842 | -1.454 | .577 | -.611 | .509 | -.422 | 1.010 | -.712 | -.030 | .776 | -.485 | -1.634 |
| 12 | 1.257 | .368 | .971 | .600 | .894 | .312 | -.020 | .837 | .046 | .156 | .343 | -.141 | .401 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

June 1981



July 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 238.189 | -7.22 | .254 | -.470 | -.164 | -.344 | -.069 | .155 | -.935 | -.548 | .325 | .203 | -1.470 |
| 1 | 13.699 | 4.057 | -.051 | -.098 | -.118 | -.101 | -.247 | -.613 | .145 | 1.553 | .768 | -.367 | -.184 |
| 2 | -24.621 | 3.647 | 4.172 | .578 | .278 | .199 | -.291 | -.254 | .727 | .993 | .616 | .491 | 2.040 |
| 3 | 9.587 | -.572 | 2.788 | -.400 | .019 | .491 | .249 | .502 | -.670 | -.619 | .720 | .633 | -.289 |
| 4 | -8.707 | .629 | -1.567 | -.925 | -4.283 | .228 | .153 | -.146 | -1.089 | -1.782 | -.353 | -.994 | -.844 |
| 5 | -6.827 | -3.140 | -3.711 | -.769 | -2.310 | -1.092 | .095 | -.790 | .395 | -.701 | -1.406 | -1.547 | .426 |
| 6 | 4.608 | -1.604 | -1.429 | 2.451 | .214 | .132 | 1.452 | -.789 | -.686 | -.902 | 1.173 | .569 | .653 |
| 7 | 7.668 | 1.693 | .022 | .248 | .143 | -.155 | 1.052 | 1.193 | -2.114 | -.168 | 2.617 | -.120 | -3.617 |
| 8 | -3.058 | 1.066 | 1.678 | -1.621 | -.365 | -.643 | .707 | 1.060 | .586 | .216 | .723 | .604 | 3.713 |
| 9 | -2.258 | .055 | 1.651 | -.938 | .429 | -.710 | .598 | -.537 | .318 | .407 | -.135 | 3.828 | 4.574 |
| 10 | 1.028 | -.700 | .430 | 1.217 | -.007 | .078 | .056 | -.154 | -.372 | .974 | .183 | 5.436 | -1.001 |
| 11 | .108 | -.670 | -1.565 | .492 | -.751 | .545 | -.069 | .781 | -.778 | .001 | .143 | -.667 | -4.118 |
| 12 | 1.039 | 1.269 | -.797 | -.103 | .585 | .051 | -.025 | .499 | -.115 | -.107 | .285 | -.147 | .563 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

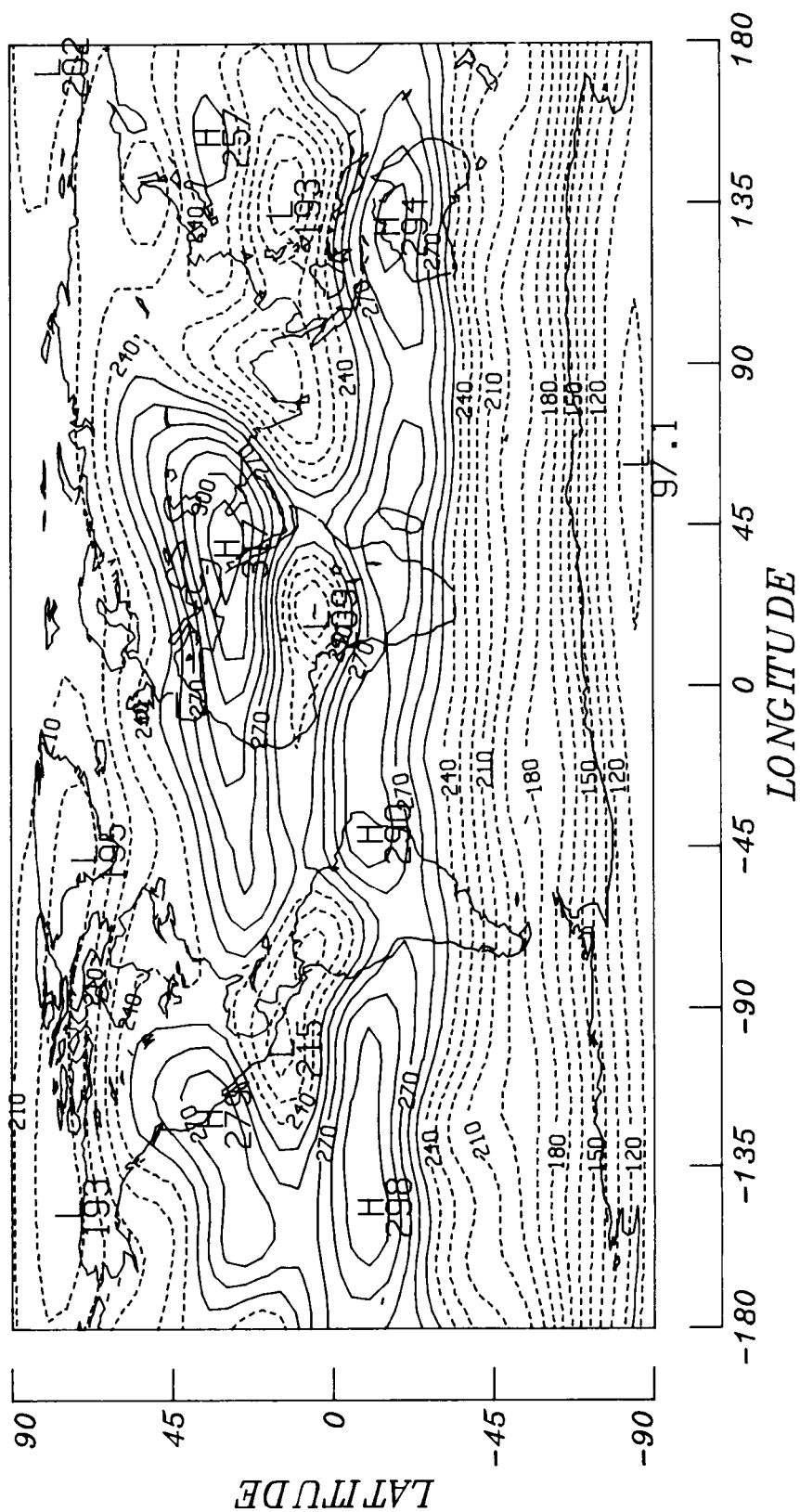
 C_n^m S_n^m

August 1981

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|-------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 238.930 | .074 | .286 | -.082 | -.550 | -.500 | .149 | -.049 | -.158 | -.936 | .716 | .166 | -.721 |
| 1 | 12.756 | 2.811 | .500 | .501 | -.058 | -.030 | -.116 | -.696 | .518 | .534 | .168 | -.388 | -.327 |
| 2 | -25.826 | 4.567 | 3.940 | .081 | -.104 | .464 | -.192 | -.378 | .267 | .608 | .550 | -.433 | 1.536 |
| 3 | 10.661 | .562 | 2.967 | -.346 | -.035 | .995 | .065 | .556 | -.067 | .068 | .377 | .280 | -.523 |
| 4 | -8.874 | -1.307 | -1.649 | -.639 | -2.932 | -.435 | -.067 | .364 | -.643 | -1.995 | -.857 | -.161 | .681 |
| 5 | -6.670 | -3.884 | -3.608 | -1.006 | -2.298 | -1.501 | .831 | -.907 | .376 | -1.866 | -1.303 | -.691 | 1.328 |
| 6 | 2.941 | .164 | -.555 | 1.948 | -.166 | -.202 | .921 | -.719 | -.225 | -.517 | 1.019 | -.005 | .475 |
| 7 | 8.014 | 2.267 | -.545 | .254 | .012 | 1.246 | 1.293 | 1.419 | -2.100 | -.484 | 2.723 | -.724 | -2.592 |
| 8 | -3.211 | .040 | .287 | -1.449 | 1.515 | -.305 | .384 | .635 | .827 | -.019 | -.353 | 1.003 | 3.226 |
| 9 | -2.911 | -.696 | 1.185 | -.216 | 1.362 | -1.035 | .241 | -.030 | -.741 | .498 | -1.276 | 5.089 | 2.799 |
| 10 | -.069 | -.558 | .627 | 1.372 | -.019 | .112 | .600 | -.174 | -1.177 | .344 | -.215 | 4.819 | -.958 |
| 11 | 1.573 | .342 | -.378 | .442 | -.593 | .478 | .366 | -.224 | -.723 | -.284 | -.323 | -.032 | -1.650 |
| 12 | 1.703 | 1.663 | .120 | -.409 | .199 | .419 | .143 | .307 | .495 | .488 | .420 | -.207 | -.096 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

August 1981

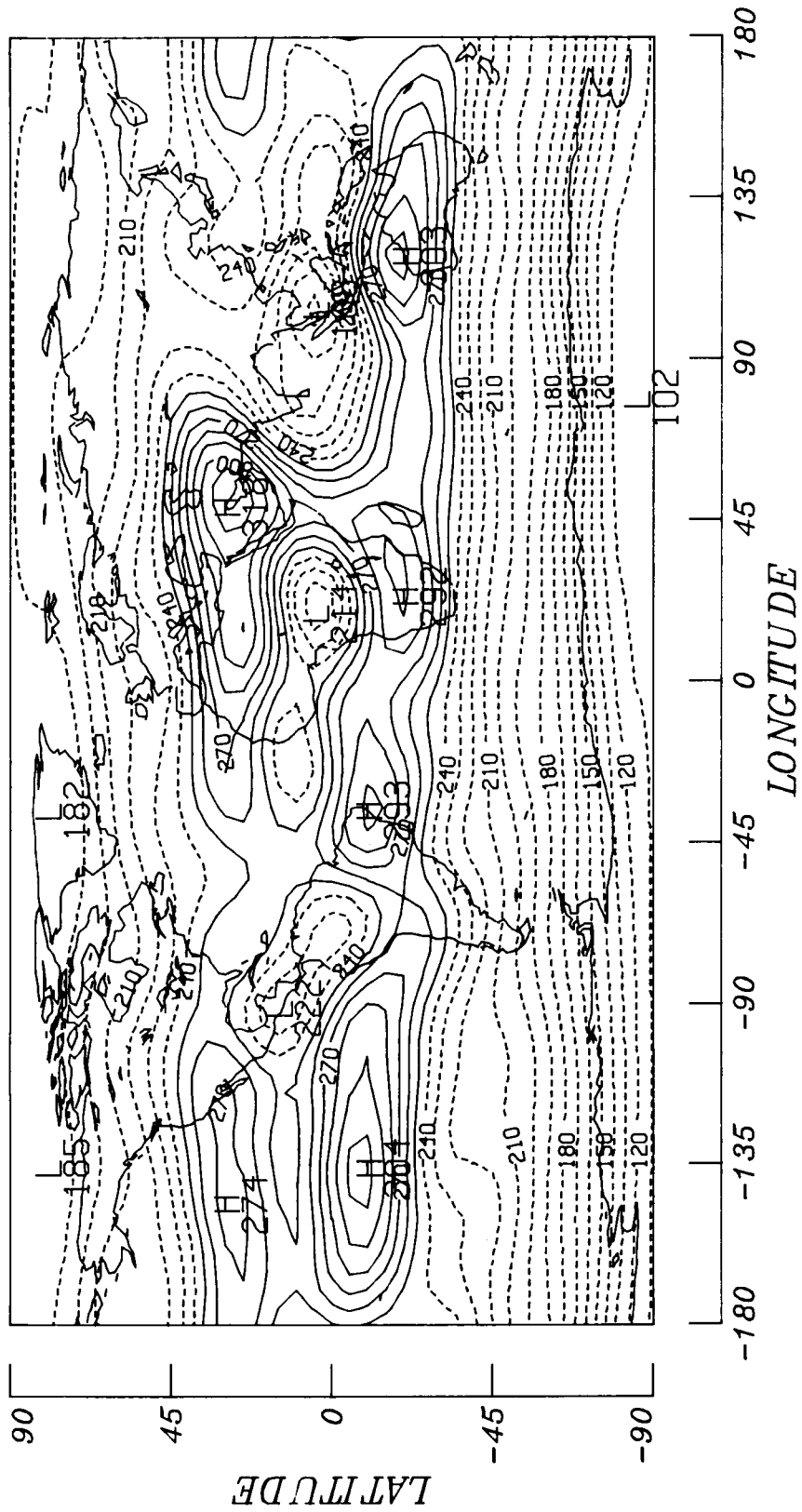


September 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|---------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 285.400 | .166 | -.428 | -.145 | -.460 | -.748 | -.590 | .597 | -.514 | -.805 | .631 | -.410 | .019 |
| 1 | 8.483 | 2.448 | -.409 | -.021 | .677 | -.158 | -.216 | .169 | .555 | .518 | -.212 | -.534 | .417 |
| 2 | -27.322 | 3.008 | 3.097 | .515 | .887 | .486 | .815 | .171 | .708 | 1.015 | -.509 | 1.264 | 1.727 |
| 3 | 6.991 | -.424 | 2.011 | -.160 | .564 | .639 | .466 | .214 | -.623 | .363 | .977 | 1.663 | -.1.855 |
| 4 | -9.620 | .047 | -1.264 | -1.881 | -4.327 | .002 | -.313 | -.302 | -.805 | -1.249 | .662 | -.540 | -.460 |
| 5 | -3.646 | -1.810 | -1.944 | -.997 | -.948 | -1.122 | .895 | -.363 | .441 | -.382 | -1.899 | -1.318 | 2.851 |
| 6 | 4.310 | -.650 | .203 | 2.370 | .607 | -.136 | 1.280 | -.247 | -.399 | .452 | -.350 | .721 | .942 |
| 7 | 6.668 | 1.058 | .790 | .154 | -.253 | .651 | 1.800 | 1.377 | -2.627 | -1.032 | 1.678 | -1.283 | -4.923 |
| 8 | -4.325 | .272 | .588 | -1.470 | -.131 | -.883 | .270 | .741 | .650 | -.785 | .845 | -.270 | 2.737 |
| 9 | -2.769 | -.557 | .621 | .412 | .652 | -.746 | -.647 | -.965 | .202 | 1.093 | .871 | 4.217 | 2.825 |
| 10 | .488 | .026 | .542 | .811 | .049 | .291 | .073 | -.469 | -1.379 | -.227 | -.370 | 5.468 | -.738 |
| 11 | 1.127 | -.060 | -1.382 | -.874 | -.100 | -.408 | -.014 | .163 | -.186 | -.384 | -.188 | -.231 | -2.007 |
| 12 | .705 | .094 | -.854 | -.379 | .965 | -.378 | -.253 | .049 | .578 | .409 | .308 | -.075 | -.156 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

September 1981

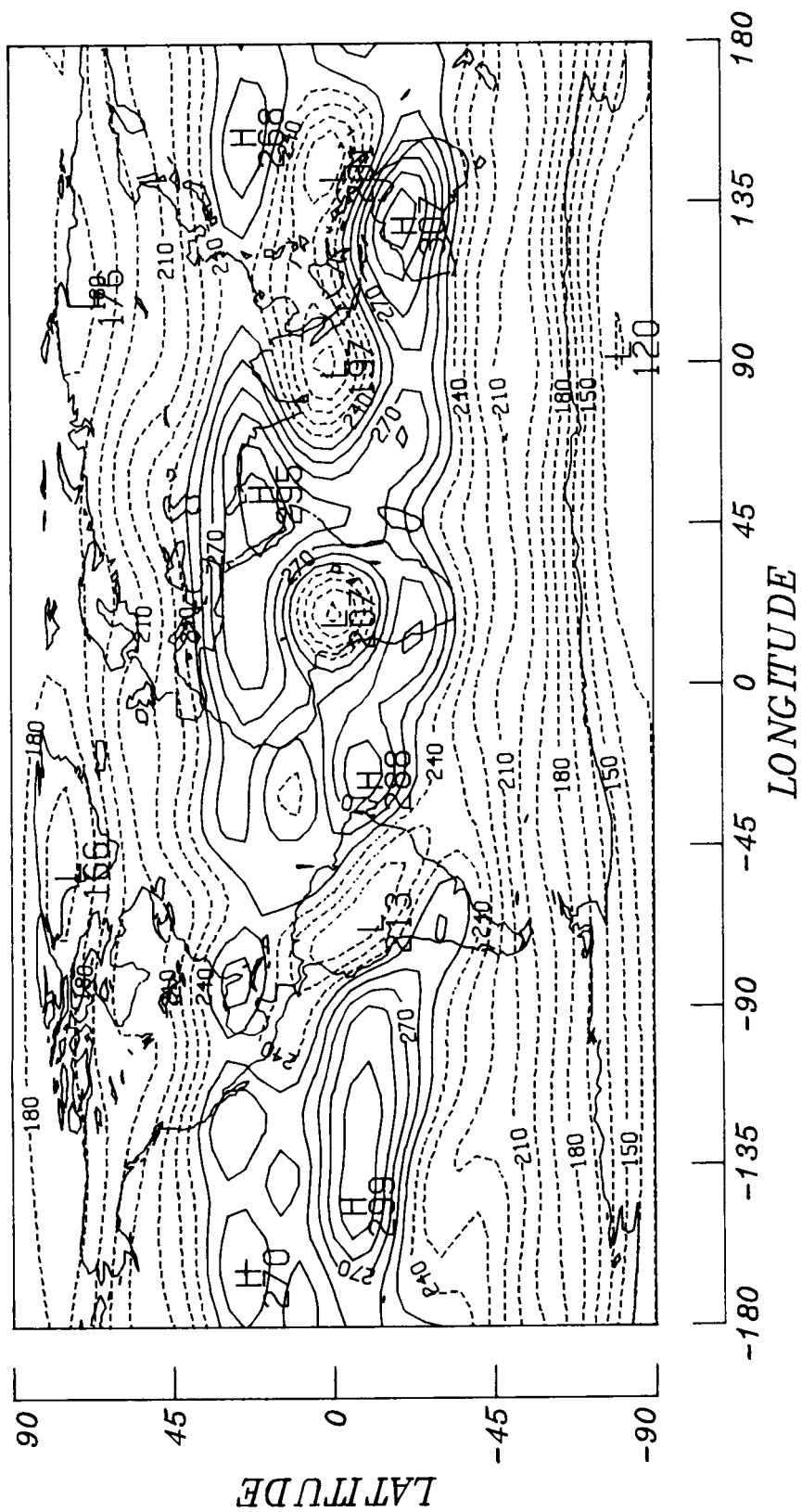


October 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-----------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 234.238 | .629 | -.340 | -.369 | -.139 | -.293 | -.251 | -.251 | -.196 | -1.024 | -1.128 | 1.181 | .284 .078 |
| 1 | 3.421 | 1.289 | 1.100 | -.190 | -.055 | .643 | .383 | .024 | .346 | -.371 | -.377 | -.293 | 1.073 |
| 2 | -27.709 | 2.715 | 2.139 | -.262 | -.508 | 1.203 | .856 | -.882 | 1.044 | -.145 | -.485 | .385 | 1.825 |
| 3 | 2.891 | -.209 | 2.292 | .882 | .295 | .384 | -.319 | -.220 | -1.249 | .597 | 1.587 | 1.064 | -3.362 |
| 4 | -7.924 | -1.118 | -.063 | -2.514 | -2.088 | -.284 | -.376 | 1.139 | -1.937 | -.699 | .739 | -.809 | .313 |
| 5 | -.056 | -1.025 | -1.138 | -1.390 | -.989 | -.593 | 1.000 | -.487 | 1.880 | -.940 | -2.257 | -.562 | 2.998 |
| 6 | 4.187 | 1.466 | 1.039 | 2.712 | .914 | .298 | 2.010 | -.146 | 1.070 | 1.324 | -.383 | 2.027 | .708 |
| 7 | 3.951 | .406 | .503 | -.804 | -.064 | 1.546 | .147 | .471 | -3.448 | -.614 | 1.849 | -.711 | -3.822 |
| 8 | -4.186 | -1.036 | -.597 | -2.391 | -1.124 | -.400 | -.901 | 1.198 | .873 | -2.486 | -.840 | -2.067 | 1.713 |
| 9 | -2.272 | -.314 | -.076 | .581 | .116 | -1.007 | -.654 | -1.318 | .311 | .654 | .360 | 3.105 | 1.269 |
| 10 | 1.135 | .521 | .448 | .876 | 1.165 | .386 | .467 | -.824 | -.846 | .798 | .010 | 5.388 | .004 |
| 11 | 1.859 | -.155 | -.458 | -.668 | -.046 | .815 | .823 | .884 | .324 | -.193 | -.484 | .115 | .076 |
| 12 | 1.141 | -.106 | .195 | .607 | .457 | -.069 | -.256 | .868 | .433 | .632 | .111 | -.161 | .236 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

October 1981

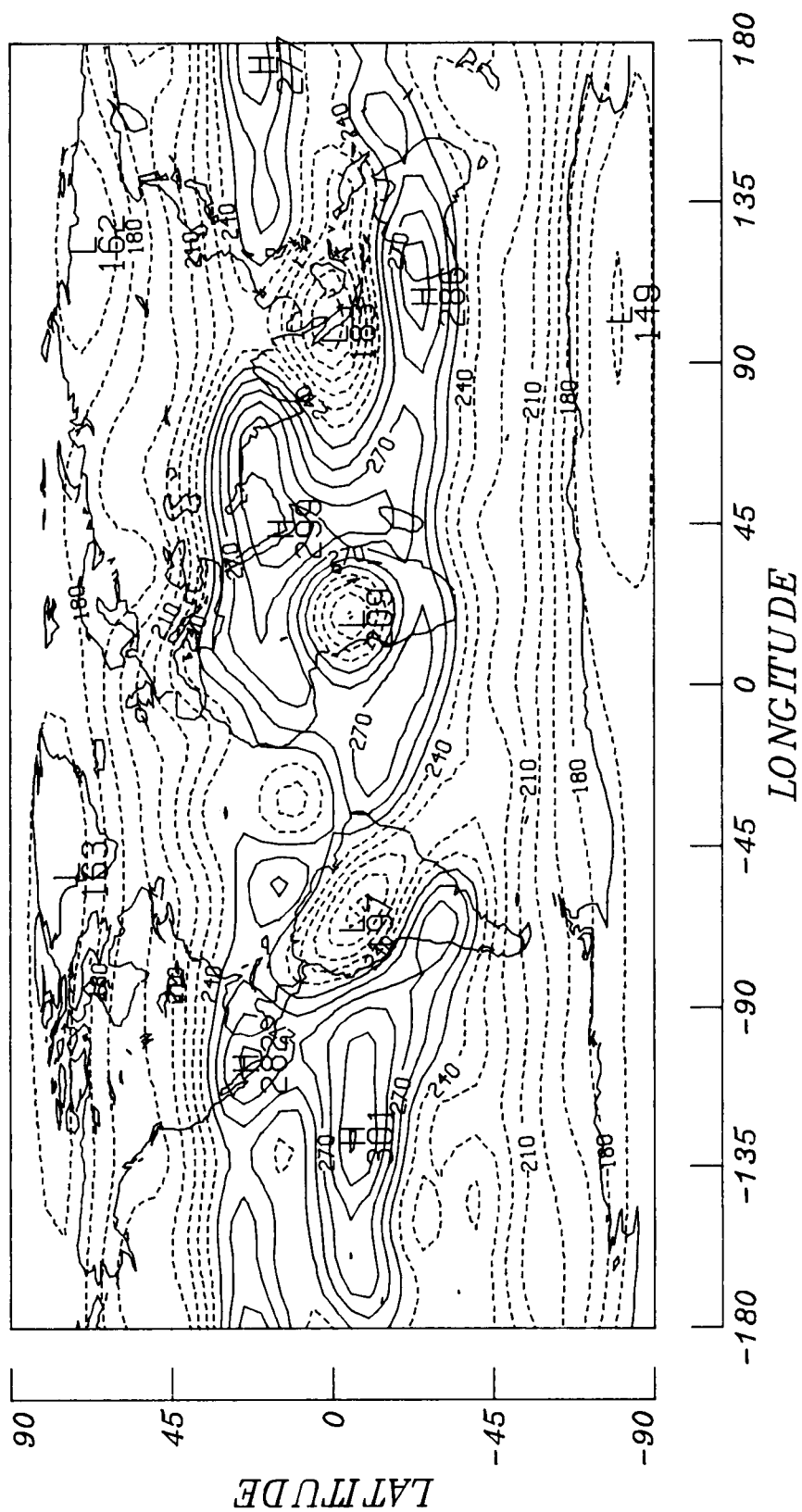


November 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 232.497 | .506 | .993 | .171 | .294 | .379 | -.364 | -.331 | -.405 | .386 | 1.055 | -.376 | -.766 |
| 1 | -2.468 | 1.847 | .320 | -.382 | .533 | 1.299 | .239 | .468 | .017 | -1.461 | -.475 | -1.093 | 1.367 |
| 2 | -27.025 | 1.698 | .873 | .816 | .380 | .462 | .817 | .104 | .719 | -.036 | -.916 | 1.060 | 2.303 |
| 3 | .060 | -.574 | 1.878 | -.063 | -.423 | -1.086 | .331 | -.684 | -.430 | 1.948 | 1.262 | 1.849 | -3.059 |
| 4 | -5.537 | .054 | -.686 | -2.252 | -.503 | -1.274 | .334 | .889 | -1.449 | -1.728 | .830 | -.207 | -.043 |
| 5 | 2.794 | -1.134 | -.443 | -.410 | -1.044 | .157 | .254 | 2.049 | 1.087 | -1.392 | -1.528 | -.594 | 2.848 |
| 6 | 4.996 | .937 | 2.423 | 2.112 | 1.424 | .059 | 1.192 | .573 | .786 | 2.743 | -1.189 | 2.112 | 1.284 |
| 7 | 1.043 | .620 | -.342 | .003 | .938 | 1.042 | .671 | 1.426 | -3.419 | -.969 | .205 | -.054 | -2.979 |
| 8 | -4.272 | -1.637 | -1.190 | -1.224 | -.978 | -.603 | .355 | .489 | 1.015 | -3.868 | 1.092 | -3.357 | .433 |
| 9 | -1.756 | -.043 | .381 | -.301 | .387 | -.003 | -.586 | -.480 | .278 | 1.203 | 3.033 | 2.280 | .693 |
| 10 | 2.150 | 1.868 | .554 | -.318 | 1.295 | 1.144 | -.353 | .042 | -1.221 | -.396 | -.202 | 6.907 | -7.398 |
| 11 | 1.350 | .108 | -.697 | -.495 | -.136 | .094 | .859 | .652 | -.018 | -.883 | .067 | .230 | -1.476 |
| 12 | .564 | -1.436 | .330 | .493 | -.124 | -.475 | .087 | .580 | .361 | .984 | .388 | -.574 | -.231 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

November 1981

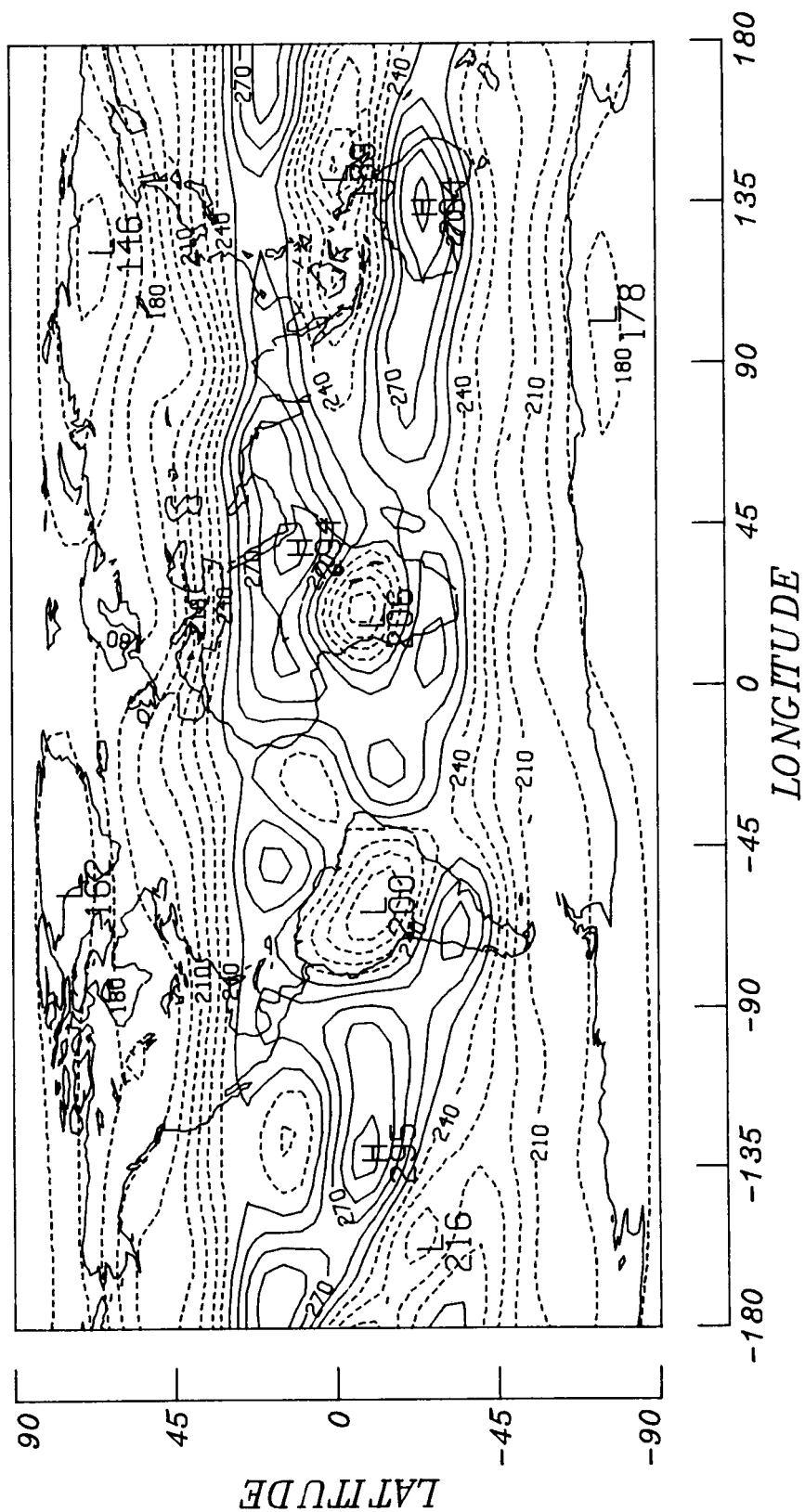


December 1981

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.001 | .958 | -.169 | -.010 | -.013 | -.688 | -.067 | -.154 | -.138 | .486 | 1.123 | -.404 | -.786 |
| 1 | -7.312 | 1.272 | .290 | -.340 | -.061 | .315 | -.492 | .661 | .676 | -.375 | .302 | -.624 | 1.617 |
| 2 | -25.932 | .682 | .148 | .284 | -.570 | .362 | .249 | -.302 | .419 | -1.050 | -1.299 | 1.091 | 2.502 |
| 3 | -2.338 | -1.311 | 3.272 | 1.204 | -.634 | -.645 | -.153 | -1.122 | -.840 | 2.341 | .996 | 1.518 | -2.670 |
| 4 | -3.853 | .225 | 1.534 | -3.447 | 1.347 | -.424 | .655 | .082 | -.884 | -.144 | 1.220 | -1.437 | -1.155 |
| 5 | 4.452 | .602 | -.932 | -1.014 | -.288 | -.516 | .289 | .714 | .609 | -3.207 | -2.732 | -.195 | 2.449 |
| 6 | 7.245 | 1.029 | .489 | 3.373 | -.360 | -.625 | .244 | .374 | .191 | .753 | -1.650 | 3.856 | 1.173 |
| 7 | -2.400 | .115 | 1.085 | -.657 | -.451 | .801 | .880 | 1.121 | -2.231 | .859 | 1.648 | -.123 | -3.330 |
| 8 | -3.908 | -.880 | .119 | -2.769 | -.440 | .387 | .905 | 1.313 | 1.755 | -1.951 | -.486 | -3.999 | -.606 |
| 9 | .804 | .548 | -1.001 | -.175 | .872 | .143 | -.545 | -1.031 | -.260 | .827 | .019 | 1.422 | -.661 |
| 10 | 1.701 | .501 | .488 | .862 | 1.110 | -.024 | .233 | -.474 | -.930 | .227 | -.147 | 3.473 | -.588 |
| 11 | .860 | -.754 | .379 | .132 | -.075 | -.414 | .365 | .345 | .086 | -.463 | -.319 | .829 | -.347 |
| 12 | .587 | -.353 | -.057 | .584 | -.016 | .191 | -.767 | -.202 | .259 | -.156 | .562 | -.056 | -.255 |
| m/n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

December 1981

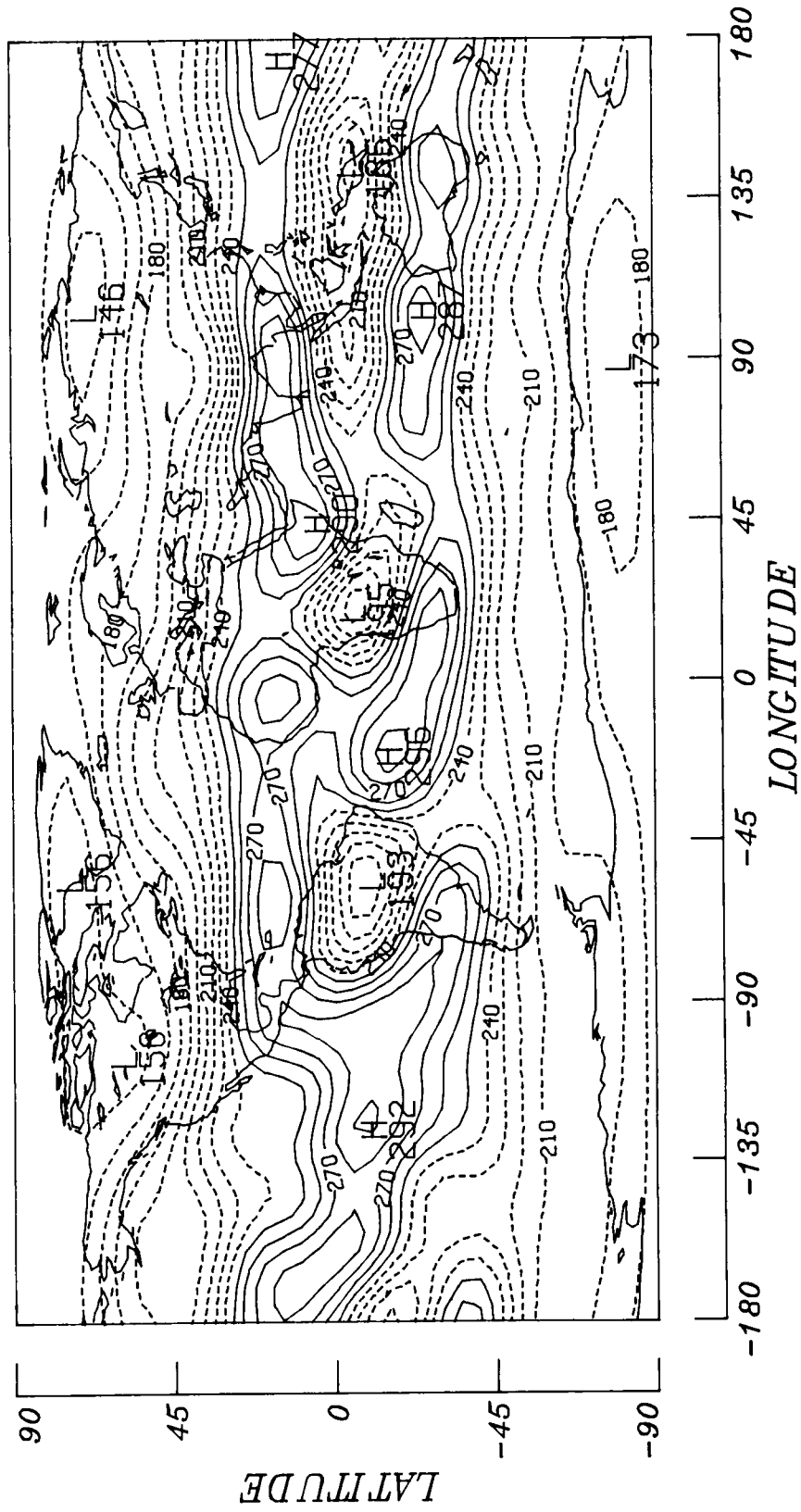


January 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|-------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.944 | -.152 | -.785 | -.368 | .050 | -.099 | -.282 | .072 | -.775 | .483 | .782 | -.880 | -.463 |
| 1 | -9.477 | 2.170 | .982 | .006 | -.653 | .175 | -.362 | -.176 | .235 | -.491 | 1.633 | -.122 | .189 |
| 2 | -26.798 | .727 | .210 | .384 | -.406 | .698 | 1.048 | -.091 | 1.303 | -.246 | -1.022 | 1.785 | 2.704 |
| 3 | -2.525 | -.946 | 3.200 | 1.129 | -.873 | -.541 | .083 | -.888 | -1.165 | 1.683 | -.313 | 1.185 | -1.639 |
| 4 | -4.282 | .453 | 2.581 | -3.058 | 3.400 | -.015 | -.032 | -.125 | -1.187 | -.521 | 1.354 | -2.361 | -1.997 |
| 5 | 6.103 | -.906 | 1.048 | -.041 | -.657 | -.239 | -.577 | .312 | 2.341 | -1.921 | -2.414 | -1.503 | 1.298 |
| 6 | 7.221 | .048 | 1.815 | 3.760 | -.166 | -.714 | .018 | -1.285 | .177 | 1.488 | -2.130 | 4.287 | 1.992 |
| 7 | -4.912 | 1.302 | .428 | -1.195 | -.015 | .624 | .966 | .880 | -3.320 | 1.000 | 2.300 | 1.612 | -3.086 |
| 8 | -3.783 | -.467 | -1.172 | -2.906 | -1.474 | .373 | .806 | .411 | .544 | -3.164 | -1.187 | -4.174 | -.377 |
| 9 | 2.850 | -.893 | .315 | .411 | .762 | -.851 | -.924 | -.819 | 1.002 | .582 | -1.370 | -.424 | 1.458 |
| 10 | 1.475 | .888 | 1.276 | .447 | 1.429 | .213 | .397 | -.134 | -.809 | .009 | -.079 | 3.340 | .969 |
| 11 | .119 | -.004 | -.537 | -.354 | -.312 | .881 | -.039 | -.037 | -.690 | -.564 | .227 | 1.399 | -3.472 |
| 12 | .170 | -.523 | -.482 | .546 | -.113 | -.519 | -.970 | .066 | .907 | .589 | .065 | .558 | .070 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

January 1982

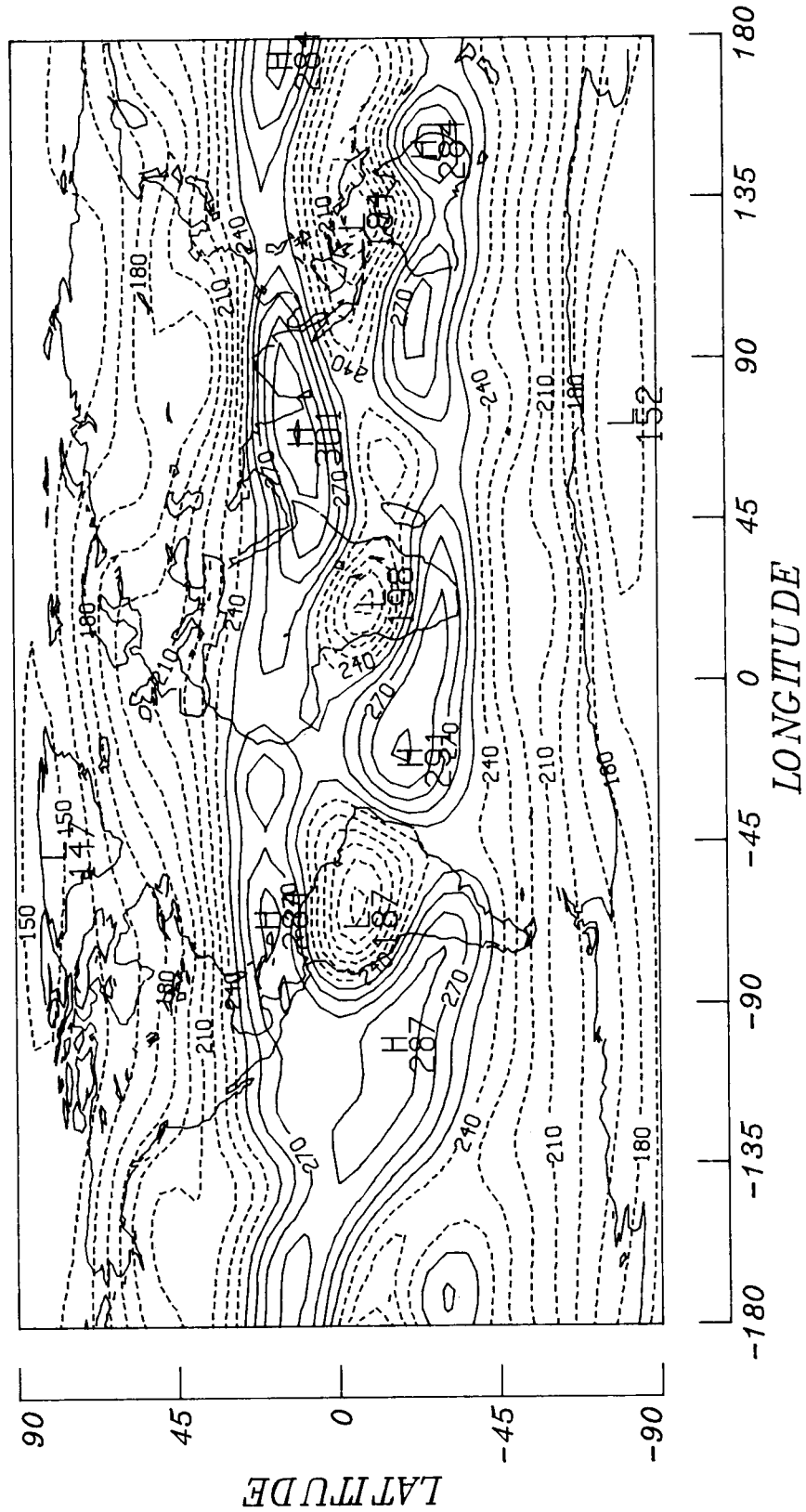


February 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.243 | .192 | .461 | .373 | -.203 | -.878 | -.029 | -.120 | -.285 | .324 | .533 | -.302 | -.168 |
| 1 | -9.285 | 1.653 | .665 | -.992 | -.041 | .103 | .593 | .108 | 1.168 | -.936 | 1.305 | .462 | -.116 |
| 2 | -28.718 | .273 | -.713 | .926 | .686 | .754 | .184 | .174 | .346 | .102 | -.500 | 1.646 | 2.319 |
| 3 | -.761 | -.217 | 2.320 | 1.689 | -.507 | -.683 | -.644 | -.869 | -1.131 | 1.946 | .295 | -.486 | -.822 |
| 4 | -6.354 | 1.108 | 3.536 | -2.997 | 3.114 | .520 | .525 | .437 | -.778 | -.318 | .580 | -2.624 | -1.682 |
| 5 | 6.787 | -.828 | 1.480 | -.295 | -1.471 | -.817 | -.862 | 1.255 | .813 | -1.180 | -2.325 | .104 | -.179 |
| 6 | 4.746 | -.430 | .464 | 4.087 | .053 | -.314 | -1.318 | -1.361 | .203 | 2.221 | -1.245 | 5.178 | 3.004 |
| 7 | -6.052 | .808 | -.046 | -.159 | .249 | .447 | 1.359 | .276 | -1.835 | 1.134 | 2.465 | 1.129 | -1.244 |
| 8 | -4.883 | .511 | -.011 | -2.054 | -.908 | -.334 | .304 | -.520 | .172 | -4.113 | -.429 | -4.803 | .481 |
| 9 | 3.894 | -.263 | .007 | .332 | .501 | .019 | -.381 | -.469 | -.009 | .576 | -1.493 | .614 | .830 |
| 10 | 2.095 | -.125 | .963 | .499 | 1.496 | -.032 | .292 | .582 | -.956 | -.321 | .057 | 3.850 | -.012 |
| 11 | -1.028 | -1.040 | -.168 | -.387 | -.242 | -.062 | .250 | .145 | .954 | .273 | -.584 | .006 | -2.849 |
| 12 | .083 | -.318 | -.915 | -.244 | -.782 | .352 | -.719 | -.310 | .251 | -.030 | .003 | .567 | .529 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

February 1982

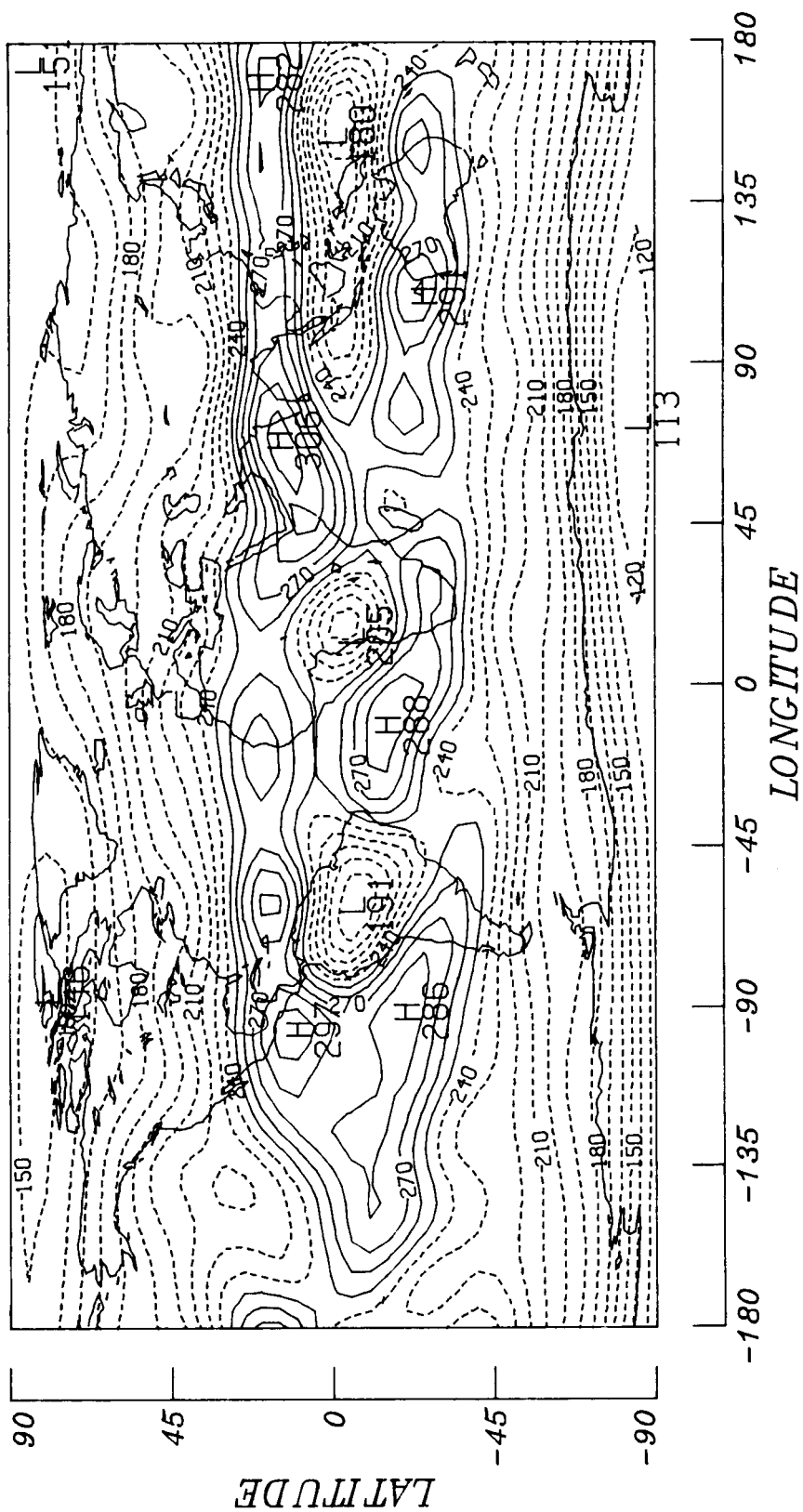


March 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|-------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.812 | -267 | .280 | -.122 | -.560 | .112 | .416 | -.624 | .036 | .731 | .942 | -.908 | .335 |
| 1 | -5.166 | 2.728 | .781 | -.078 | -.239 | .634 | -.006 | -.488 | 1.272 | -.557 | .582 | .673 | .354 |
| 2 | -28.185 | 1.477 | -2.415 | .209 | -.096 | -.435 | -.034 | -.048 | 1.053 | -.501 | -1.472 | 1.881 | 1.927 |
| 3 | 1.098 | -.765 | 1.582 | 1.668 | -1.109 | -.292 | .307 | -.671 | -1.722 | .764 | 1.227 | .906 | -2.242 |
| 4 | -7.395 | .131 | 3.370 | -2.032 | 1.318 | -.885 | -1.009 | .077 | -1.513 | -.671 | 2.279 | -2.394 | -.493 |
| 5 | 5.799 | -.497 | 1.568 | -.249 | -.532 | -.966 | -.039 | .948 | 1.769 | .364 | -2.360 | -1.561 | 1.054 |
| 6 | 3.695 | .712 | 1.037 | 3.721 | .187 | -.991 | -.015 | -.674 | .310 | 2.323 | -1.983 | 5.015 | 3.152 |
| 7 | -2.764 | .360 | -1.667 | -.480 | .171 | .895 | 1.557 | -.309 | -3.601 | -.741 | 1.591 | 2.418 | -2.052 |
| 8 | -6.190 | -.229 | -.182 | -1.746 | -1.362 | .615 | -.141 | -.494 | .541 | -3.546 | .502 | -3.793 | .516 |
| 9 | 2.521 | .507 | 1.521 | .254 | -.432 | -.767 | -1.284 | -.165 | .278 | .283 | -.028 | -.458 | .476 |
| 10 | 3.346 | .325 | 1.314 | .056 | 1.414 | .214 | .368 | -.067 | -.992 | -1.256 | .838 | 3.667 | 1.071 |
| 11 | .170 | -.484 | -.793 | -.668 | .255 | .410 | .573 | -.096 | .081 | .051 | -.744 | .216 | -1.396 |
| 12 | -1.644 | .505 | -.325 | .625 | -.483 | -.315 | -.612 | .358 | 1.514 | .493 | .889 | .109 | .932 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

March 1982

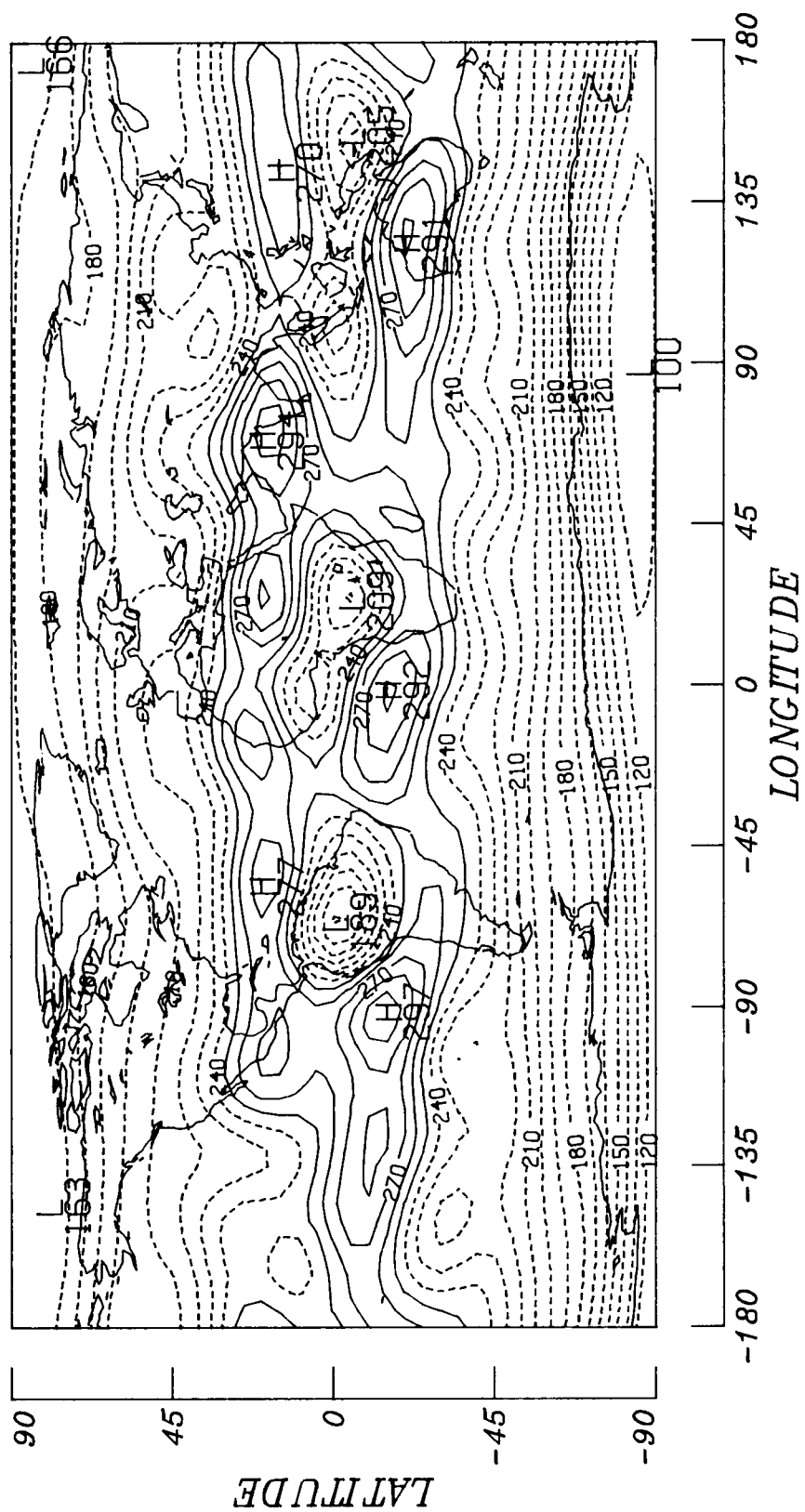


April 1982

| | | | | | | | | | | | | | m/n |
|---------|---------|--------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | m/n |
| 231.700 | .310 | -.533 | -.636 | .050 | .674 | .322 | -.123 | -.430 | -.134 | .787 | -.326 | .037 | 12 |
| 1 | .906 | 1.760 | -.540 | -.304 | -.201 | -.700 | .786 | .229 | .550 | -.765 | -.246 | -.971 | 11 |
| 2 | -27.578 | 2.076 | -.651 | .042 | -.001 | .011 | .360 | .055 | 1.097 | .376 | -.767 | .733 | 10 |
| 3 | 4.841 | .180 | .177 | .966 | .069 | -1.250 | -.313 | -.590 | -1.324 | .334 | 1.498 | 1.898 | 9 |
| 4 | -7.683 | -.345 | 1.488 | -1.732 | .798 | -.676 | -.246 | .366 | -2.071 | -1.028 | 1.316 | -1.293 | 8 |
| 5 | 2.911 | -1.517 | -.207 | -1.450 | -.276 | -.574 | 1.348 | 1.429 | 1.718 | .044 | -2.044 | -1.755 | 7 |
| 6 | 2.402 | .728 | .448 | 3.438 | .338 | .334 | .363 | 1.026 | .542 | .730 | -1.450 | 3.041 | 6 |
| 7 | -.118 | 2.006 | -.329 | .671 | .942 | 1.050 | -1.030 | -.792 | -3.522 | -1.412 | .997 | .171 | 5 |
| 8 | -6.146 | -.163 | .340 | -1.456 | -.250 | .292 | 1.329 | .083 | 1.189 | -3.085 | -.328 | -2.084 | 4 |
| 9 | .428 | -1.108 | .841 | .017 | -.973 | -.217 | .606 | -.324 | -1.991 | -.105 | .413 | 1.428 | 3 |
| 10 | 3.937 | -.099 | 1.179 | .166 | .780 | -.149 | .338 | .150 | -.780 | -.478 | -.273 | 2.415 | 2 |
| 11 | .746 | .459 | -1.285 | -.730 | .885 | -.218 | -.092 | .338 | .184 | -.329 | -.155 | -.824 | 1 |
| 12 | -1.671 | .598 | -.848 | .602 | -.102 | .048 | -.311 | -.385 | -.195 | .363 | .382 | -.506 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

April 1982

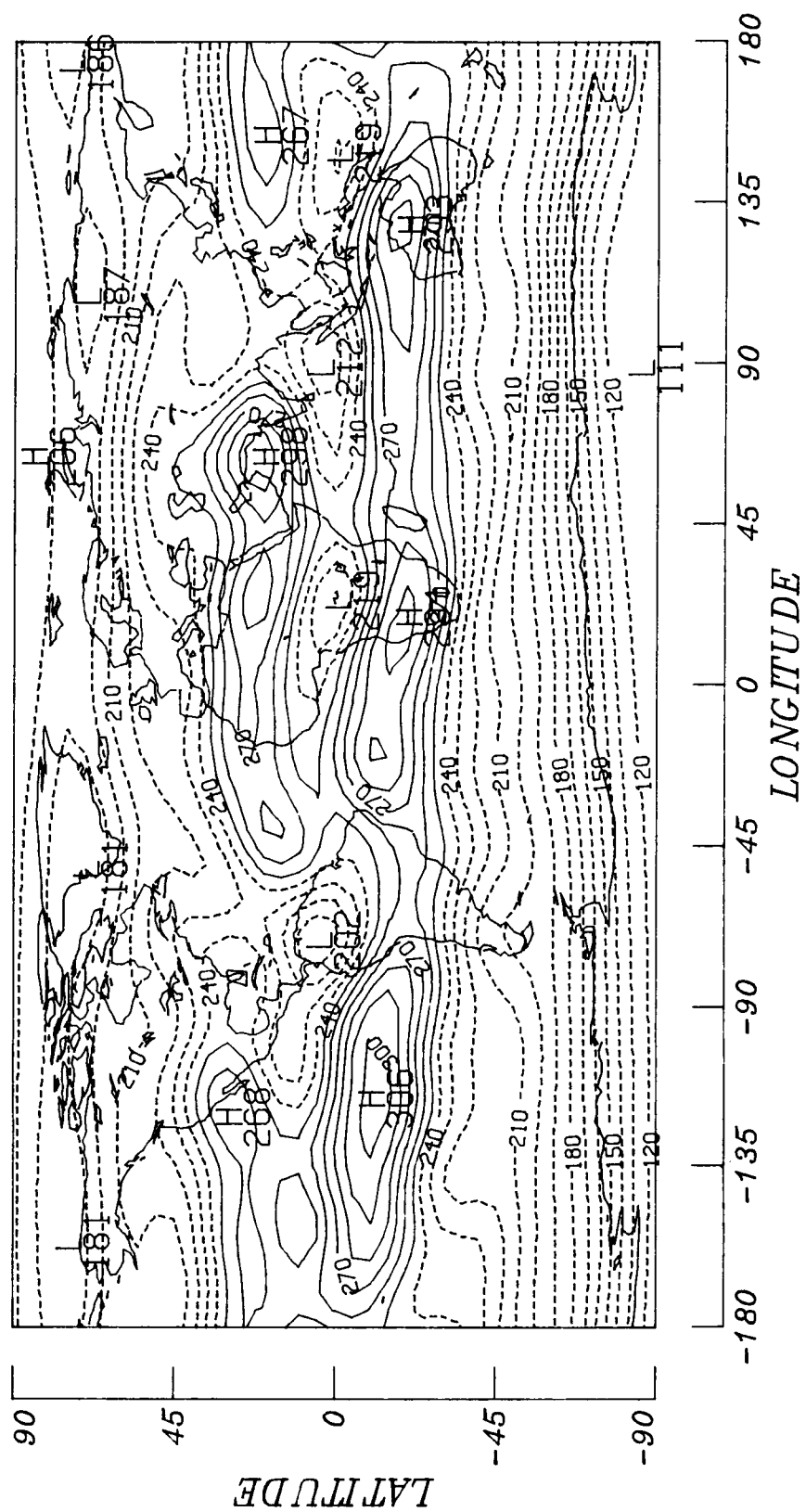


May 1982

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 233.442 | .207 | -.425 | -1.174 | .768 | -.177 | -.300 | .145 | -.618 | -.407 | .743 | -.225 | .064 |
| 1 | 5.532 | 1.750 | .394 | -.069 | .088 | -.012 | -.100 | -.242 | .582 | -.716 | .121 | -1.235 | 1.612 |
| 2 | -27.478 | 2.122 | 1.588 | .073 | -.817 | .513 | -.271 | -.470 | .652 | .096 | -.468 | .641 | 1.564 |
| 3 | 7.159 | .593 | 1.097 | 2.374 | -.686 | .421 | .200 | -.420 | -.576 | .417 | 1.299 | 1.295 | -1.862 |
| 4 | -6.160 | .853 | -1.002 | -1.581 | -1.613 | .144 | .556 | .146 | -.497 | -.102 | .242 | -.357 | -1.487 |
| 5 | -1.828 | -1.945 | -2.808 | -1.885 | -1.181 | -1.011 | .943 | -.081 | .716 | .943 | -2.046 | -.752 | .887 |
| 6 | 3.353 | -.541 | .129 | 2.736 | .449 | .599 | .666 | .719 | -.098 | -.379 | .582 | .800 | 2.458 |
| 7 | 4.754 | 1.348 | 1.629 | .724 | .902 | .802 | .630 | -.391 | -2.196 | -1.498 | 1.731 | -.037 | -3.140 |
| 8 | -5.697 | -.692 | .799 | -2.263 | .176 | .670 | -.061 | -.303 | .286 | -2.110 | -.460 | -.077 | 1.137 |
| 9 | -1.804 | -1.208 | .003 | -.168 | -1.083 | -.825 | .318 | -.614 | -.350 | .473 | -.660 | 2.349 | .870 |
| 10 | 3.921 | .981 | .933 | 1.349 | -.048 | -.419 | .730 | -.603 | -1.052 | .165 | -.439 | 4.040 | 1.455 |
| 11 | 2.124 | .884 | -1.097 | -.273 | .788 | .649 | .073 | .531 | -.580 | .126 | .296 | -.210 | -.222 |
| 12 | -.220 | .215 | -.783 | .440 | .687 | .465 | -.409 | -.138 | .102 | -.835 | .160 | -.019 | -.146 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

May 1982

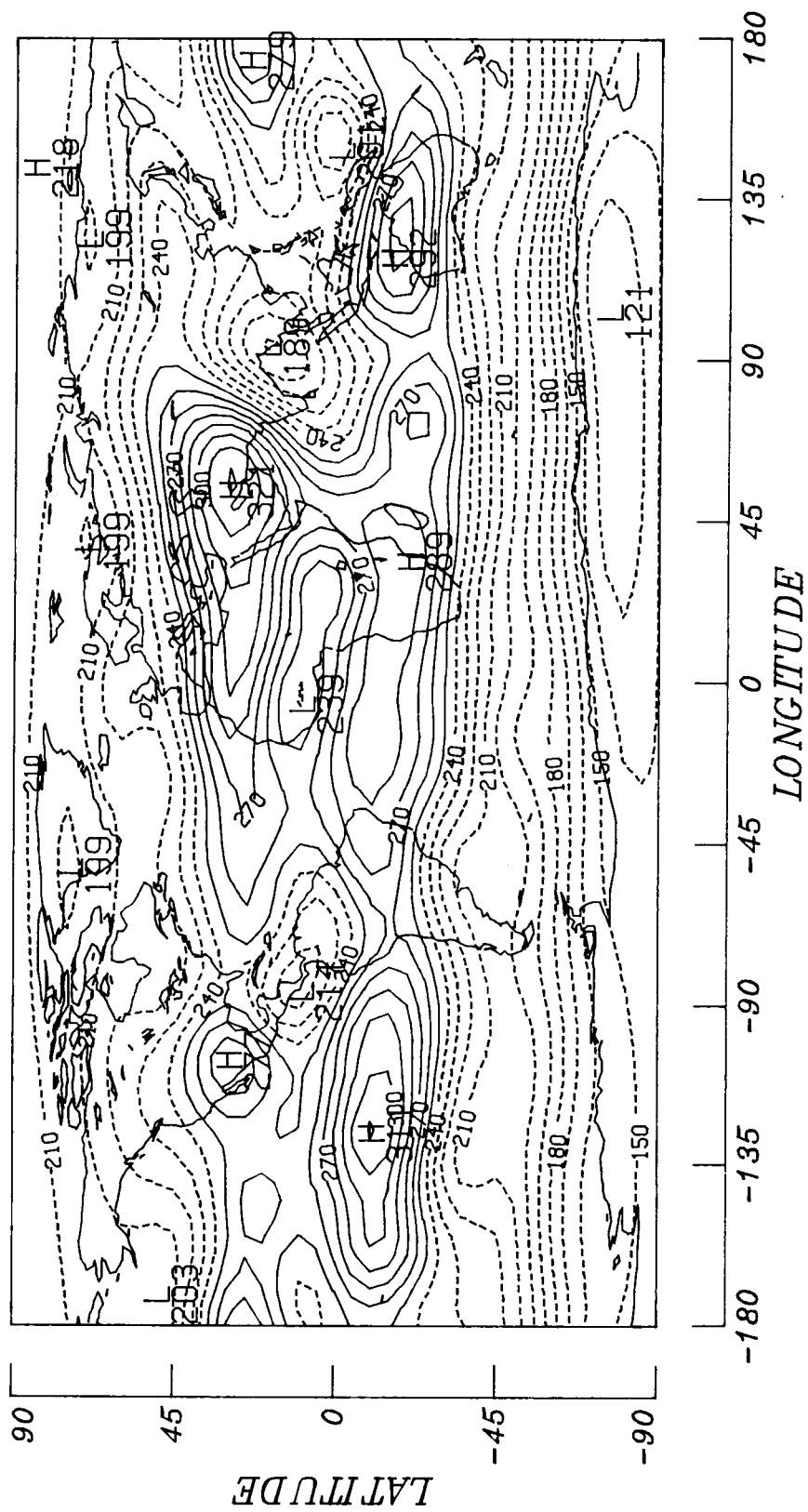


June 1982

| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | $m \backslash n$ |
|------------------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|-------|--------|------------------|
| 0 | 236.169 | -391 | -438 | -009 | -455 | .025 | -.439 | .633 | .068 | -.741 | .050 | -.286 | .076 | 12 |
| 1 | 10.240 | 4.914 | .767 | -.044 | -.180 | -.636 | -.073 | -.128 | .704 | .187 | -.634 | -.166 | .389 | 11 |
| 2 | -26.351 | 4.315 | 3.908 | .008 | .547 | -.478 | .075 | -.107 | .076 | -.302 | -.242 | .899 | 2.088 | 10 |
| 3 | 7.805 | -.780 | 1.425 | .924 | .368 | .051 | .198 | .444 | .332 | -.239 | 1.421 | .773 | -.085 | 9 |
| 4 | -5.690 | -1.158 | -1.807 | -2.757 | -3.364 | -.212 | .775 | .928 | -.274 | .167 | -.072 | -.140 | -1.655 | 8 |
| 5 | -3.999 | -2.247 | -3.836 | -1.867 | -1.764 | -1.865 | 1.069 | .102 | -.191 | .152 | -2.202 | -.976 | -.290 | 7 |
| 6 | 4.407 | -1.165 | -.705 | 3.499 | 1.227 | -.699 | 1.797 | .311 | .089 | -1.650 | -.387 | -.793 | .632 | 6 |
| 7 | 6.186 | .800 | .995 | 1.484 | .051 | .876 | 2.134 | .613 | -.2753 | -1.429 | 1.981 | -.857 | -4.604 | 5 |
| 8 | -3.274 | .504 | 1.474 | -.640 | .078 | -.063 | .481 | .432 | -.206 | -2.081 | .622 | -.152 | 2.954 | 4 |
| 9 | -3.639 | .720 | 1.004 | -.069 | -.043 | -.578 | .860 | .013 | -.135 | -.279 | .844 | 3.519 | 3.098 | 3 |
| 10 | 2.552 | .289 | .349 | -.113 | -.536 | .607 | .241 | -.183 | -.991 | -1.042 | .128 | 7.156 | .538 | 2 |
| 11 | .937 | -1.769 | -.994 | -.421 | .397 | .823 | -.543 | .326 | .050 | -.002 | .633 | -.104 | -.786 | 1 |
| 12 | .801 | -.092 | -.128 | .165 | 1.641 | .187 | -.161 | -.171 | .668 | .089 | .602 | -.096 | -.629 | |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

 C_n^m S_n^m

June 1982

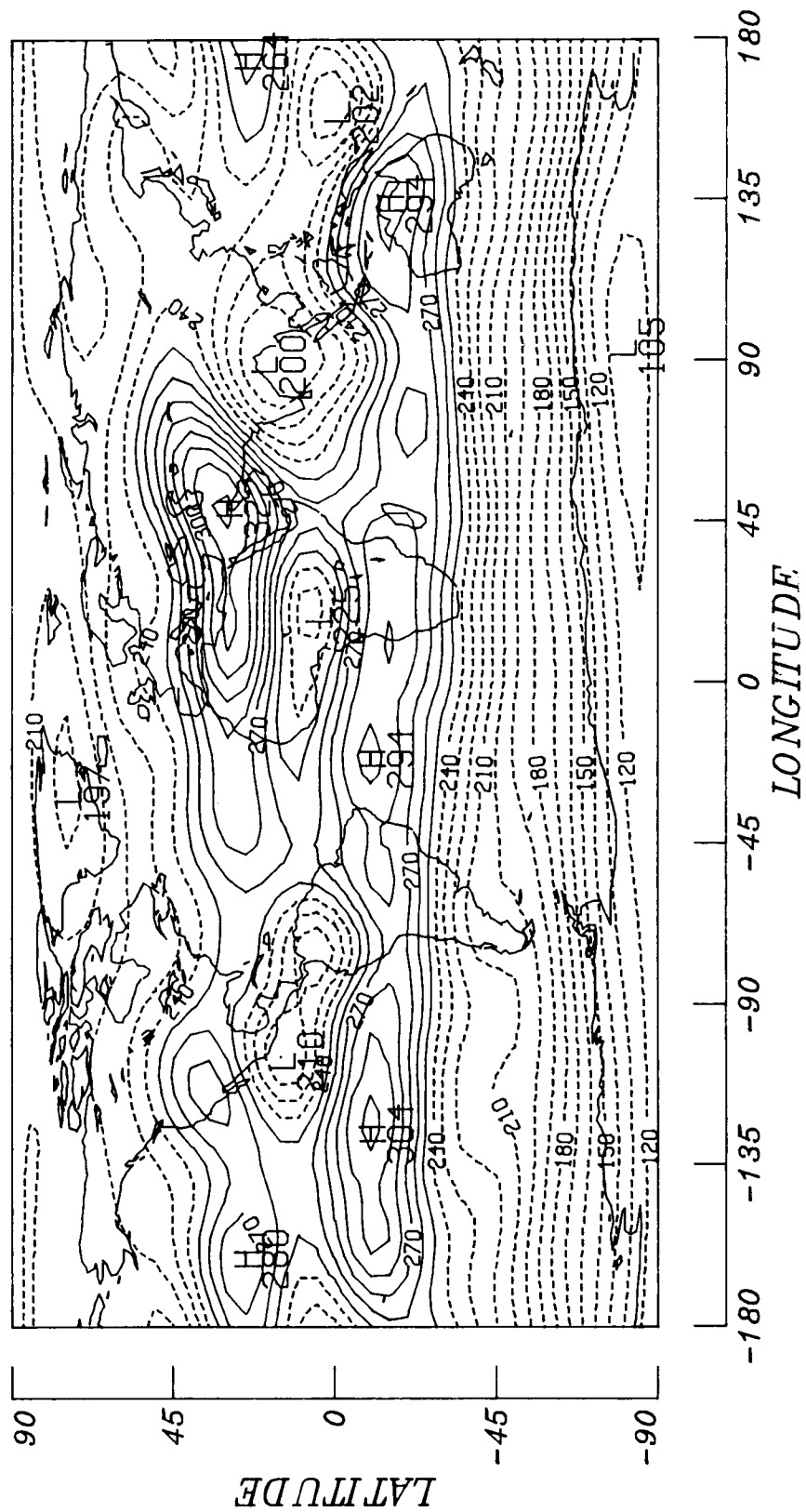


July 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 237.678 | -.126 | -.399 | -.347 | -.109 | -.249 | -.020 | -.128 | -.412 | -.346 | -.216 | .066 | -.286 |
| 1 | 12.856 | 4.668 | 1.088 | -.030 | .536 | .343 | .217 | -.162 | .894 | .804 | .069 | -.293 | -.414 |
| 2 | -25.317 | 4.655 | 3.312 | .319 | .179 | .914 | -.370 | .628 | .462 | .371 | .791 | 1.456 | 1.617 |
| 3 | 10.454 | -1.098 | 1.982 | 1.284 | -.584 | .781 | .306 | 1.468 | -.639 | -.384 | 1.501 | .835 | .210 |
| 4 | -8.041 | -.451 | -.858 | -1.881 | -4.931 | .211 | .483 | .305 | -.598 | -1.010 | -.350 | -.313 | -1.618 |
| 5 | -5.275 | -2.208 | -3.688 | -1.662 | -1.797 | -.476 | .153 | -.802 | .257 | -.788 | -1.348 | -1.358 | .390 |
| 6 | 4.008 | -1.836 | -1.964 | 2.423 | 1.259 | -.664 | 1.140 | .633 | -.228 | -1.212 | -.268 | -.766 | 1.000 |
| 7 | 7.621 | .509 | 1.338 | 1.726 | .228 | .625 | .928 | .656 | -2.739 | -.538 | 2.504 | -.290 | -3.628 |
| 8 | -3.367 | .503 | 2.052 | -1.041 | -.462 | .128 | -.093 | .667 | .451 | .511 | .404 | 1.599 | 3.774 |
| 9 | -3.505 | .975 | .712 | -.975 | .048 | .029 | .502 | .392 | .162 | .232 | -.486 | 3.386 | 2.206 |
| 10 | 1.038 | -.037 | .045 | .885 | .326 | .416 | .417 | .210 | -.215 | .291 | -.251 | 4.817 | .001 |
| 11 | 1.268 | -1.256 | -1.998 | .331 | -.378 | .751 | -.218 | .533 | -.768 | .266 | -.374 | -.316 | -.950 |
| 12 | .770 | .001 | -.687 | -.329 | .171 | .109 | -.371 | .420 | .072 | -.003 | -.095 | -.152 | .005 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

July 1982

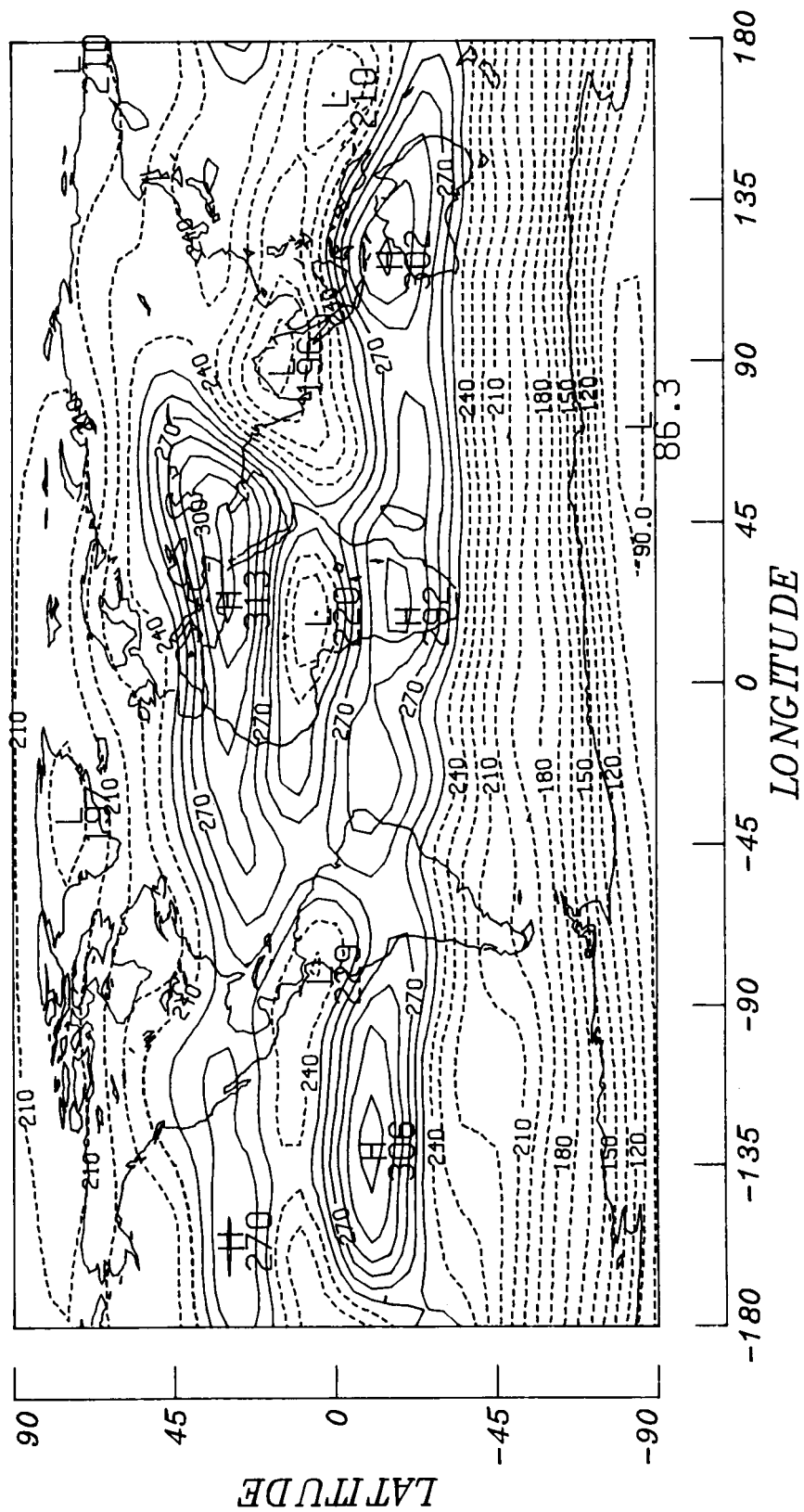


August 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 237.799 | -207 | -523 | -238 | -385 | -208 | .053 | .344 | -178 | .501 | .348 | .324 | -.202 |
| 1 | 12.664 | 4.800 | -.051 | -.224 | .158 | .124 | -.288 | -.379 | .433 | 1.591 | -.242 | -.956 | -.714 |
| 2 | -25.819 | 4.577 | 1.740 | .513 | -.087 | .757 | -.203 | .478 | .654 | .653 | -.288 | .121 | 1.919 |
| 3 | 10.799 | -1.303 | 2.286 | 1.932 | -.087 | .027 | .351 | .543 | -.338 | -.712 | 1.610 | .873 | -.092 |
| 4 | -10.324 | -1.354 | .665 | -2.165 | -4.555 | -.155 | .005 | .068 | -.830 | -1.014 | .511 | -.102 | -.598 |
| 5 | -5.119 | -2.046 | -2.343 | -2.103 | -1.246 | -1.074 | .062 | -.536 | -.148 | -.243 | -1.854 | -1.430 | .288 |
| 6 | 3.531 | -1.094 | -2.483 | 2.662 | .247 | -.846 | .332 | -.126 | -.276 | -.980 | -.481 | -.086 | .194 |
| 7 | 7.717 | .939 | .823 | 1.799 | -.212 | .195 | 1.451 | .754 | -1.923 | -.598 | 2.197 | .055 | -4.408 |
| 8 | -3.430 | .611 | 1.355 | -2.132 | -.238 | .087 | .120 | 1.055 | .473 | .459 | .495 | 1.579 | 6.277 |
| 9 | -3.187 | -.628 | .359 | -.808 | .673 | -.455 | -.488 | -.233 | .523 | .182 | .284 | 2.382 | 2.722 |
| 10 | .122 | .302 | 1.052 | 1.718 | .484 | .111 | -.089 | -.009 | -.652 | -.416 | -.206 | 2.831 | -1.258 |
| 11 | 1.525 | -.840 | -.957 | .484 | -.153 | .254 | .124 | .083 | -.404 | -.617 | .165 | -.307 | -1.535 |
| 12 | 1.107 | .206 | -.506 | -.370 | .482 | -.450 | .090 | -.289 | .447 | .081 | .048 | -.228 | .020 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

August 1982

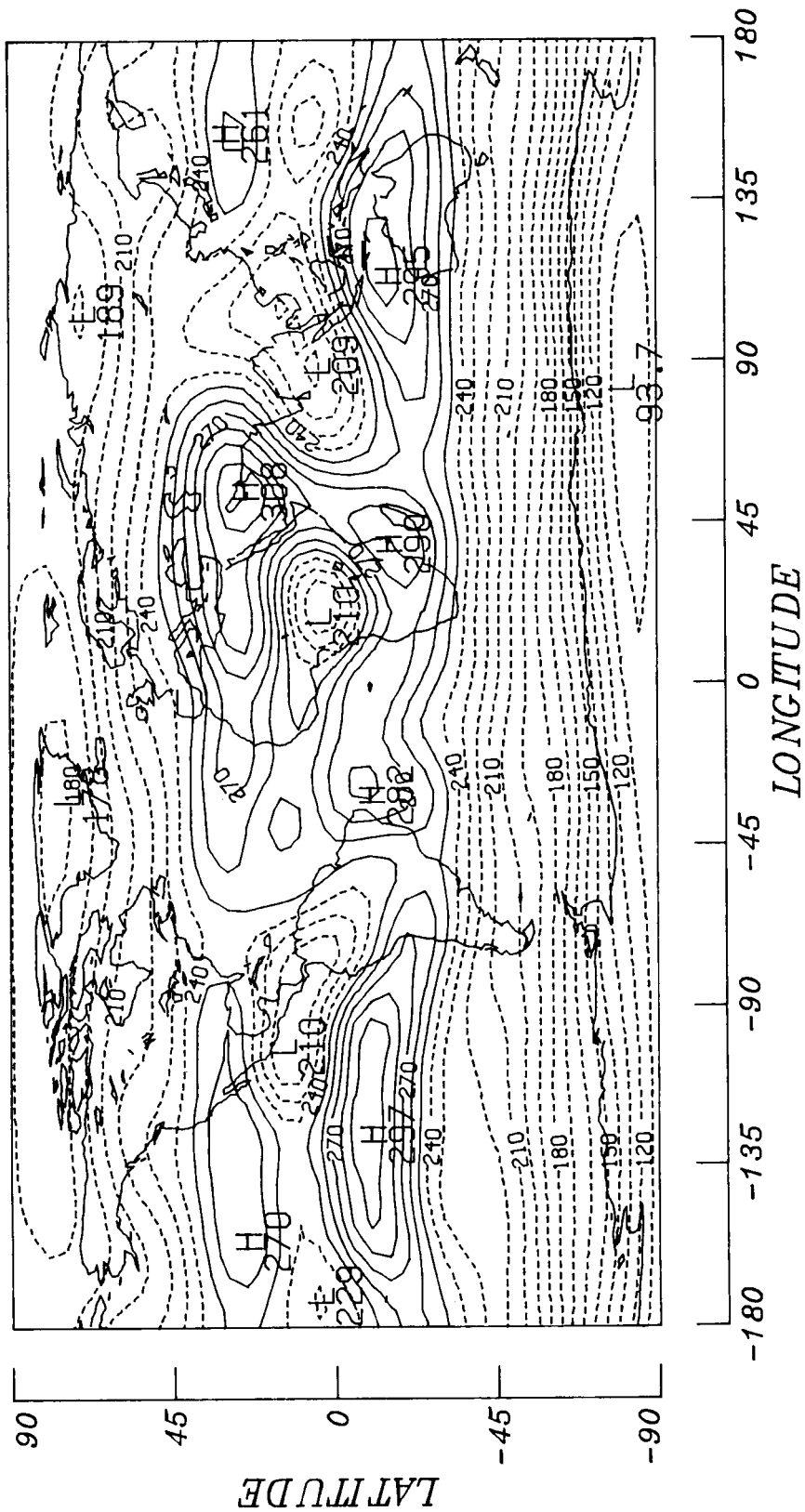


September 1982

| 12 11 10 9 8 7 6 5 4 3 2 1 | | | | | | | | | | | | | m/n | | |
|----------------------------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|----|
| 0 | 235.058 | -2.49 | .006 | .165 | -.179 | -.481 | -.457 | -.475 | -.481 | -.164 | -1.082 | .319 | .558 | .409 | 12 |
| 1 | 9.097 | 2.632 | .972 | -.239 | -.062 | -.239 | .331 | -.544 | .756 | -.458 | .116 | -1.107 | .320 | .320 | 11 |
| 2 | -27.838 | 3.939 | 2.580 | .556 | -.128 | .217 | .628 | -.333 | .824 | .324 | .866 | -.176 | 1.372 | 1.372 | 10 |
| 3 | 8.066 | -.582 | 2.010 | 1.163 | .644 | .014 | .228 | -.079 | -.557 | .391 | 1.028 | 1.132 | -1.126 | 1.126 | 9 |
| 4 | -10.328 | -1.472 | .118 | -1.854 | -4.703 | .322 | .437 | .721 | -.469 | -.577 | -.002 | .301 | -.204 | -.204 | 8 |
| 5 | -3.628 | -2.185 | -2.147 | -1.987 | -1.836 | -.491 | .089 | .300 | 1.489 | .122 | -1.224 | -.542 | .653 | .653 | 7 |
| 6 | 3.220 | .355 | -.503 | 2.577 | .880 | 1.147 | .894 | -.791 | -.179 | .577 | 1.106 | -.230 | 1.499 | 1.499 | 6 |
| 7 | 6.554 | .552 | .892 | 1.784 | .382 | .456 | 1.427 | 1.189 | -2.857 | -1.826 | 1.821 | -.916 | -2.910 | -2.910 | 5 |
| 8 | -3.408 | -1.347 | 1.158 | -1.729 | -.509 | -.874 | -.532 | .063 | 1.102 | -1.532 | .109 | .728 | 2.022 | 2.022 | 4 |
| 9 | -3.194 | -.308 | -.112 | -1.112 | .057 | -.788 | -.915 | -.875 | .027 | .179 | .215 | 3.757 | .876 | .876 | 3 |
| 10 | .795 | .855 | .186 | 1.550 | .854 | -.074 | .793 | .086 | -.767 | -.649 | -.245 | 3.318 | .004 | .004 | 2 |
| 11 | 1.448 | -.709 | -.737 | -.056 | -.107 | .470 | .700 | .242 | -.317 | .024 | -.901 | .135 | .875 | .875 | 1 |
| 12 | .889 | .251 | -.052 | -1.226 | -.303 | .184 | -.203 | -.464 | .449 | .225 | -.229 | -.361 | .282 | .282 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |

 S_n^m C_n^m

September 1982

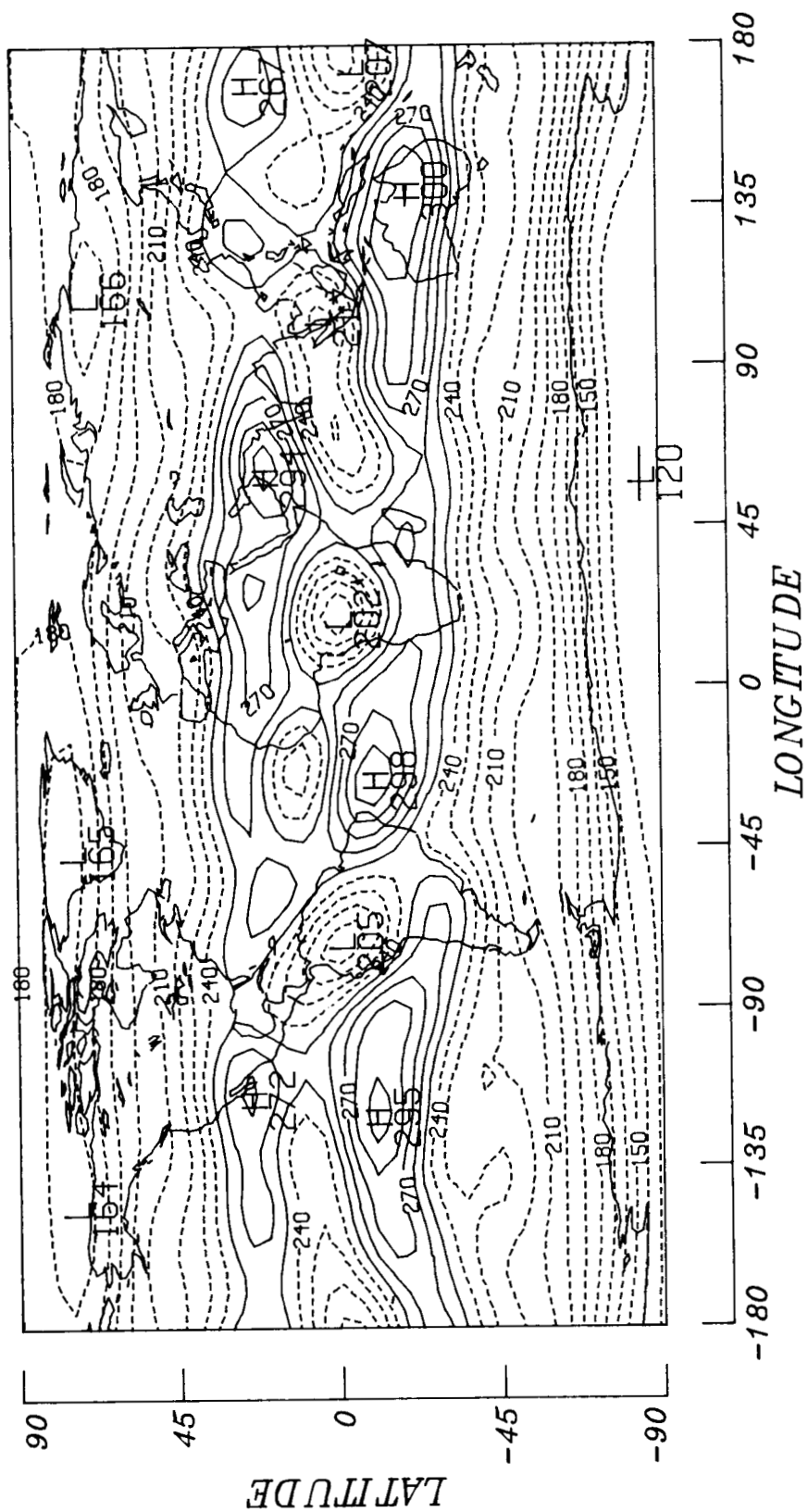


October 1982

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 232.772 | .350 | -.705 | -.452 | .064 | -.127 | -.313 | .229 | .102 | -.919 | 1.439 | .772 | -.208 |
| 1 | 1.426 | .297 | -.003 | -.562 | .324 | .069 | .058 | .001 | .728 | -.694 | .397 | -.716 | 1.184 |
| 2 | -27.591 | 3.020 | .032 | .576 | .330 | .003 | -.430 | -.245 | .349 | .502 | -.850 | -.689 | 1.912 |
| 3 | 3.274 | -1.357 | .535 | 3.273 | .480 | -.984 | -.003 | -.323 | -.393 | 1.259 | .944 | .274 | -1.492 |
| 4 | -8.683 | .204 | 1.294 | -1.999 | -2.474 | -1.068 | .689 | -.354 | -1.334 | -.783 | 1.071 | .869 | -.253 |
| 5 | -.598 | .027 | -.167 | -1.973 | -.787 | -.457 | -.351 | .363 | .774 | -.527 | -.313 | .503 | 1.161 |
| 6 | 4.795 | 1.200 | .113 | 2.623 | 1.354 | -.445 | .102 | .665 | .973 | 2.070 | -.240 | .385 | 1.659 |
| 7 | 4.544 | .166 | .503 | 1.404 | -.067 | .874 | 1.799 | 1.594 | 1.594 | -2.080 | -.421 | 2.013 | -2.731 |
| 8 | -5.922 | -.611 | .570 | -3.008 | -.799 | -.631 | .333 | .073 | 1.015 | -2.638 | .061 | .373 | 1.224 |
| 9 | -1.371 | -.084 | -.288 | -.745 | .490 | -.750 | -1.893 | -1.272 | -.531 | 1.210 | .765 | 2.144 | -.688 |
| 10 | 2.751 | -.051 | .489 | 1.974 | 1.098 | .209 | -.236 | -.611 | -1.106 | -.033 | -.537 | .310 | .361 |
| 11 | 1.204 | -.793 | -.281 | -.430 | -.373 | .267 | .741 | .122 | -.041 | -.686 | .184 | .306 | .597 |
| 12 | .608 | .673 | -.635 | -.327 | -.161 | .104 | -.264 | .621 | .402 | .805 | .133 | .357 | .723 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

October 1982

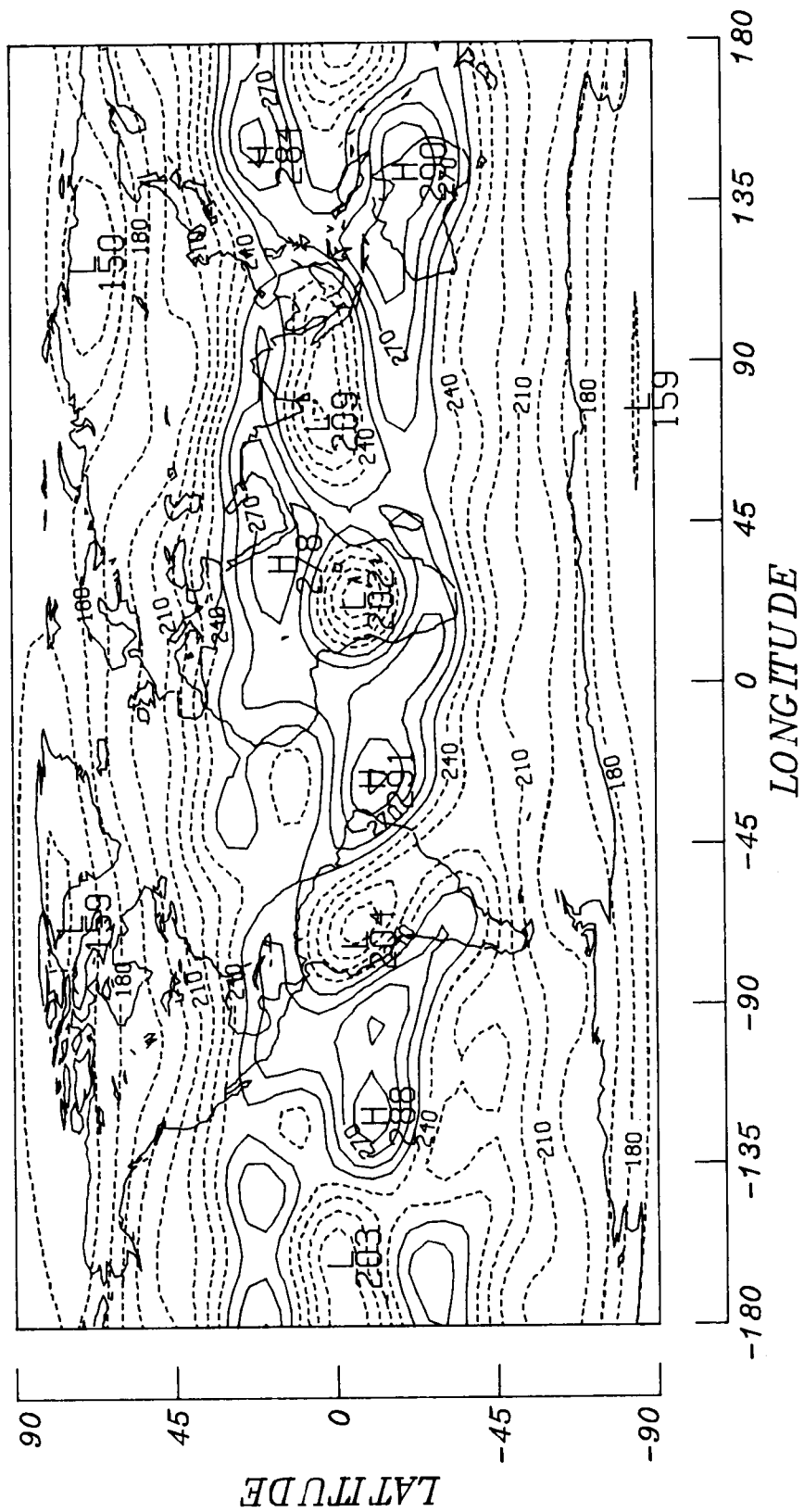


November 1982

| 12 11 10 9 8 7 6 5 4 3 2 1 | | | | | | | | | | | | | m/n | |
|----------------------------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|----|
| 0 | 230.849 | .561 | -1.045 | -.202 | -.631 | -.519 | -.616 | -.426 | .240 | -.391 | .867 | .042 | .411 | 12 |
| 1 | -6.456 | .617 | -1.144 | -.577 | .039 | .589 | .331 | .306 | -.365 | -2.061 | .337 | .056 | .649 | 11 |
| 2 | -25.508 | 1.911 | 1.194 | .953 | -.219 | .719 | .261 | .025 | .269 | .072 | -1.254 | -.309 | 1.328 | 10 |
| 3 | -.393 | -.846 | 1.737 | 3.952 | .007 | -.878 | -.505 | -.570 | -.111 | 2.442 | .373 | .142 | -1.902 | 9 |
| 4 | -4.950 | .629 | 2.601 | -1.985 | -1.267 | .449 | .371 | .132 | -.957 | -.366 | 1.706 | .320 | -.088 | 8 |
| 5 | 1.653 | 1.432 | .606 | -3.478 | -.952 | -.147 | .427 | -.253 | .950 | -1.787 | -.770 | 1.025 | 1.935 | 7 |
| 6 | 5.531 | .089 | -1.252 | 1.868 | .694 | -.091 | -.500 | -.320 | 1.022 | 1.872 | -1.581 | .258 | .768 | 6 |
| 7 | .607 | -.888 | .679 | 1.925 | -.099 | 1.387 | .295 | 1.296 | -1.809 | .347 | -.175 | -1.054 | -1.838 | 5 |
| 8 | -4.740 | -.117 | .737 | -2.018 | -1.485 | -.962 | -.776 | .434 | 1.469 | -3.131 | .161 | 1.516 | 1.194 | 4 |
| 9 | -.166 | .754 | -.925 | -.879 | .417 | -.868 | -.181 | -.528 | .543 | 1.022 | 2.931 | 1.960 | -.768 | 3 |
| 10 | 2.416 | .414 | .902 | .520 | 1.572 | .441 | .696 | -.165 | -1.413 | -1.180 | -.188 | -1.011 | -.839 | 2 |
| 11 | 1.541 | -1.020 | .674 | -.603 | -.108 | -.130 | .288 | .219 | .520 | -.377 | .691 | .260 | .223 | 1 |
| 12 | -.448 | -.842 | -1.049 | .054 | -.218 | .090 | -.329 | -.224 | .220 | 1.080 | .863 | -.001 | .123 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

 C_n^m S_n^m

November 1982



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December 1982

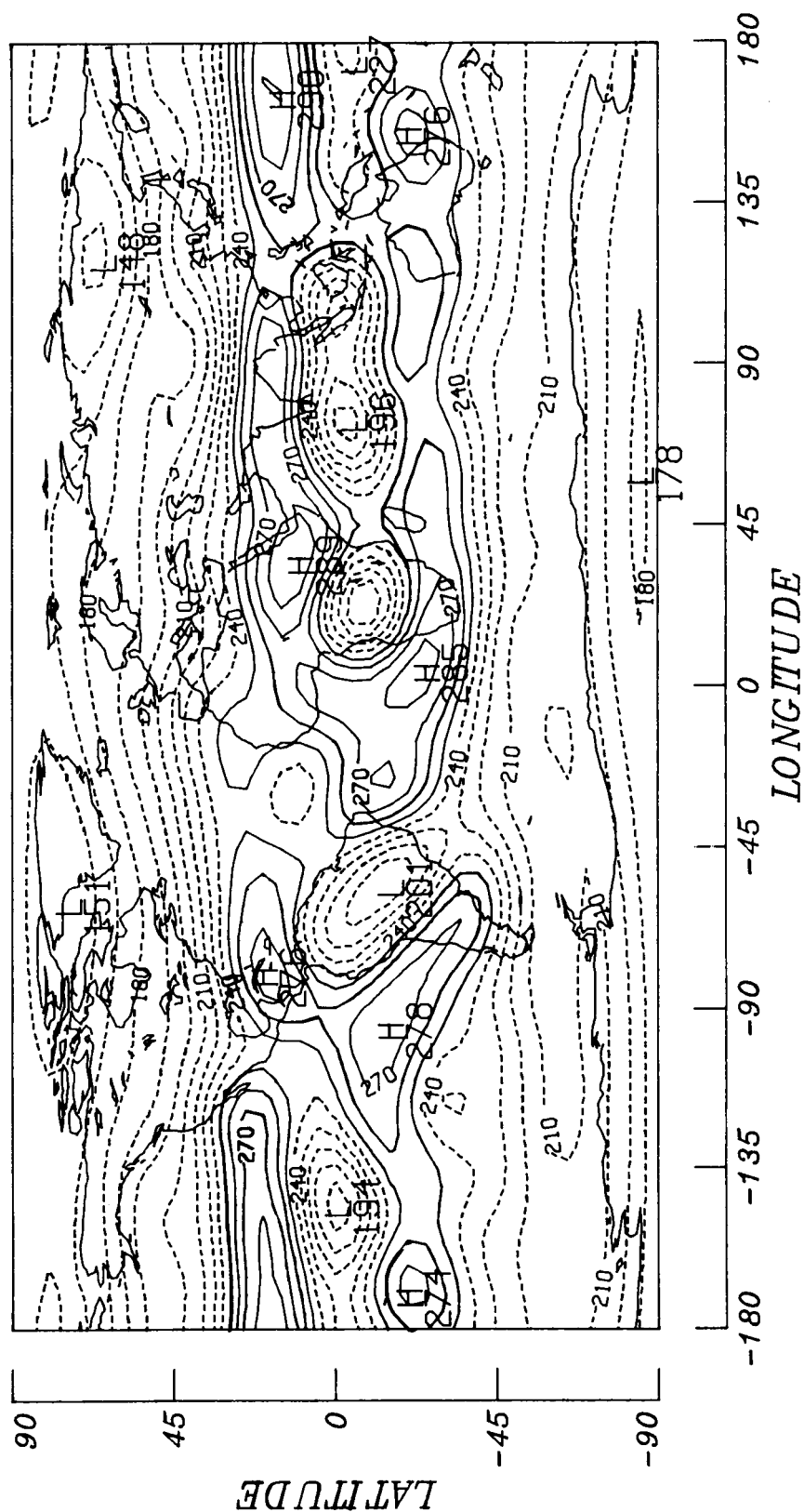
| n | m | | | | | | | | | | | | n |
|-----|---------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.320 | .484 | .368 | .204 | .536 | -.837 | .335 | -.443 | .467 | -.111 | .728 | .164 | -.242 |
| 1 | -8.294 | .517 | -.267 | -1.494 | -.366 | .301 | -.181 | .071 | .328 | -.993 | .686 | .366 | .594 |
| 2 | -24.202 | .606 | 2.890 | .206 | -.566 | .246 | -.011 | .585 | .442 | -.013 | -.955 | -.488 | 2.558 |
| 3 | -3.517 | -.728 | 1.433 | 1.247 | .414 | -1.029 | -.014 | -.644 | -.841 | 1.888 | -1.190 | -.267 | -1.527 |
| 4 | -4.164 | 1.248 | .584 | -1.824 | 1.619 | .828 | -.332 | -.896 | -2.052 | -1.206 | 1.585 | 1.686 | -1.678 |
| 5 | 3.518 | .611 | 1.260 | -1.341 | -1.447 | -.538 | -.837 | .380 | 1.108 | -2.140 | .599 | 1.059 | .899 |
| 6 | 7.386 | -.400 | .860 | 2.540 | -.742 | -.044 | .119 | -1.239 | 1.725 | 2.122 | -1.809 | -.050 | 2.133 |
| 7 | -2.332 | -1.321 | -.036 | .813 | .813 | 1.734 | .288 | .455 | -2.895 | .014 | -1.458 | .284 | -.736 |
| 8 | -5.840 | -.557 | .079 | -1.978 | -.795 | -.710 | .392 | -.353 | 1.711 | -1.926 | -.984 | 1.352 | -.152 |
| 9 | 1.904 | 2.105 | -.691 | -.703 | .313 | -1.187 | -.109 | -.838 | .007 | 1.695 | 3.152 | 1.151 | -.685 |
| 10 | 2.649 | .940 | .556 | .641 | 1.566 | .750 | .902 | -.060 | -1.457 | -.263 | -.579 | .211 | -.258 |
| 11 | .897 | -2.172 | 1.016 | .064 | -.217 | .642 | -.161 | .417 | .274 | -.523 | -.125 | .871 | -.419 |
| 12 | -1.034 | -.639 | -.321 | .252 | -.326 | -.071 | -.868 | .083 | .646 | .838 | .414 | -.586 | .445 |
| n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

C_n^m

S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

December 1982



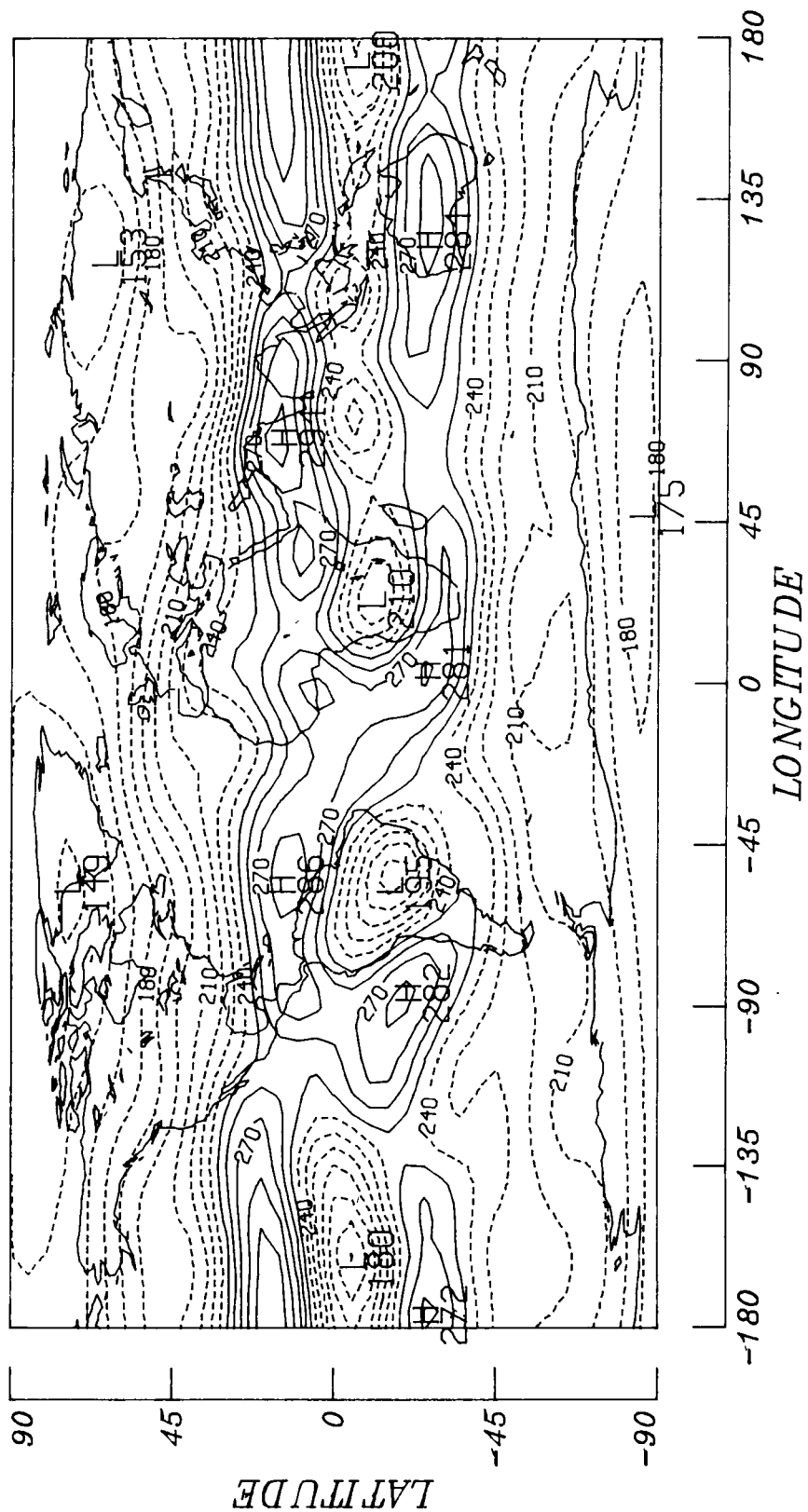
January 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.515 | .573 | .371 | .087 | .191 | -.383 | -.005 | -.245 | .860 | .565 | .974 | -.326 | -.210 |
| 1 | -8.945 | 1.070 | -.332 | -.503 | -.009 | .354 | -.150 | .072 | -.466 | -1.255 | 1.251 | -.396 | -.036 |
| 2 | -25.805 | .194 | .668 | -.221 | -.528 | .662 | .516 | -.036 | .026 | -.314 | -.640 | -.096 | 1.953 |
| 3 | -4.449 | -2.760 | 2.789 | 1.720 | .458 | -.386 | .796 | -.830 | -.104 | 1.671 | -.991 | 1.162 | -.805 |
| 4 | -3.367 | 1.359 | 2.945 | -2.406 | 1.274 | .623 | .032 | .343 | -1.326 | -.948 | 0.000 | 1.823 | -1.312 |
| 5 | 6.192 | 2.721 | .043 | -.486 | -1.763 | .876 | -.324 | 1.162 | .717 | -1.610 | .200 | -.343 | 1.350 |
| 6 | 5.851 | -.816 | -.532 | 4.014 | -.556 | .156 | -.211 | -.140 | 1.994 | 2.315 | .185 | -.302 | 1.924 |
| 7 | -5.362 | -3.459 | .528 | .601 | 1.576 | 1.210 | .731 | .327 | -1.724 | -.388 | -.648 | .344 | -1.048 |
| 8 | -4.766 | .927 | .569 | -2.751 | -.412 | -.163 | .181 | .240 | 1.775 | -2.257 | -1.330 | 1.883 | 1.425 |
| 9 | 4.790 | 3.127 | -1.323 | -1.010 | .102 | -1.003 | -.031 | -.491 | -.330 | .660 | 2.366 | 1.230 | -.840 |
| 10 | 2.200 | .301 | .873 | .520 | 1.486 | .183 | .163 | .156 | .058 | -.203 | .129 | -1.008 | -.745 |
| 11 | -.903 | -2.075 | .886 | .138 | -.725 | .661 | -.527 | .004 | -.051 | -.014 | -.391 | .335 | .246 |
| 12 | -.846 | .385 | -.802 | .329 | -.612 | -.237 | -.402 | -.239 | .361 | -.334 | .817 | .336 | 1.004 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

January 1983

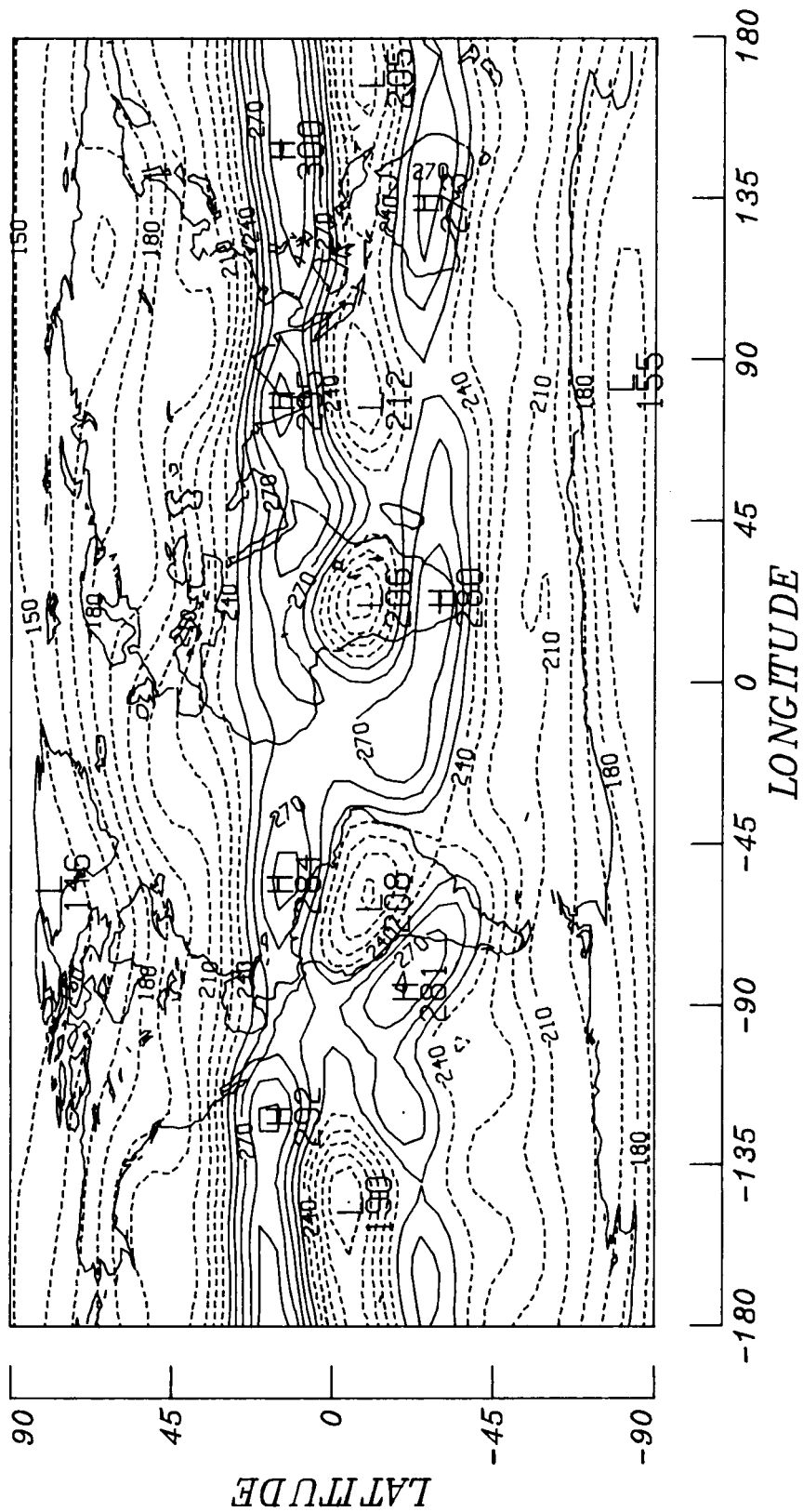


February 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 280.887 | .053 | .115 | -.378 | .094 | -.378 | .298 | .137 | -.019 | -.142 | .492 | -.850 | -.359 |
| 1 | -7.813 | 1.683 | .697 | .117 | .112 | .342 | .290 | -.025 | .484 | -.982 | 1.374 | -.940 | -1.071 |
| 2 | -26.893 | -.499 | 1.253 | -.075 | 0.000 | .199 | .570 | -.127 | .838 | .304 | -.305 | -.147 | 2.559 |
| 3 | -3.376 | -1.310 | 1.689 | 1.162 | -.181 | -1.085 | -.158 | -.852 | -.716 | .995 | -1.058 | 1.251 | .398 |
| 4 | -4.132 | 2.494 | 2.570 | -1.404 | .289 | .760 | .134 | .100 | -2.376 | -1.218 | .145 | 1.720 | -1.112 |
| 5 | 7.727 | .783 | .577 | -1.182 | -.886 | -.411 | -.713 | 1.204 | .976 | -1.126 | -.793 | -.111 | -.614 |
| 6 | 4.256 | -2.015 | -.556 | 2.318 | .267 | -.137 | 1.164 | -.681 | 2.003 | 1.352 | -.511 | -.874 | 2.602 |
| 7 | -6.779 | -2.042 | .536 | .176 | 1.239 | 1.490 | .324 | .291 | -2.578 | -.828 | -.682 | -.109 | -.100 |
| 8 | -5.901 | .853 | 1.331 | -1.610 | -.028 | -.567 | -.093 | .298 | .434 | -2.756 | -1.408 | 1.772 | .418 |
| 9 | 5.537 | 1.954 | -.540 | .699 | -.467 | -.615 | -.226 | -.831 | .164 | 1.247 | 2.017 | 1.208 | -.913 |
| 10 | 2.316 | -.389 | .548 | .437 | .647 | .476 | .386 | .195 | -.993 | -.127 | -.170 | .042 | .938 |
| 11 | -2.048 | -1.728 | .046 | -.439 | .384 | -.102 | -.022 | 1.091 | .510 | -.101 | .265 | -.348 | .094 |
| 12 | -.945 | .341 | -.818 | .851 | -.222 | .097 | -.698 | -.691 | .313 | -.076 | .173 | .062 | .575 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

February 1983

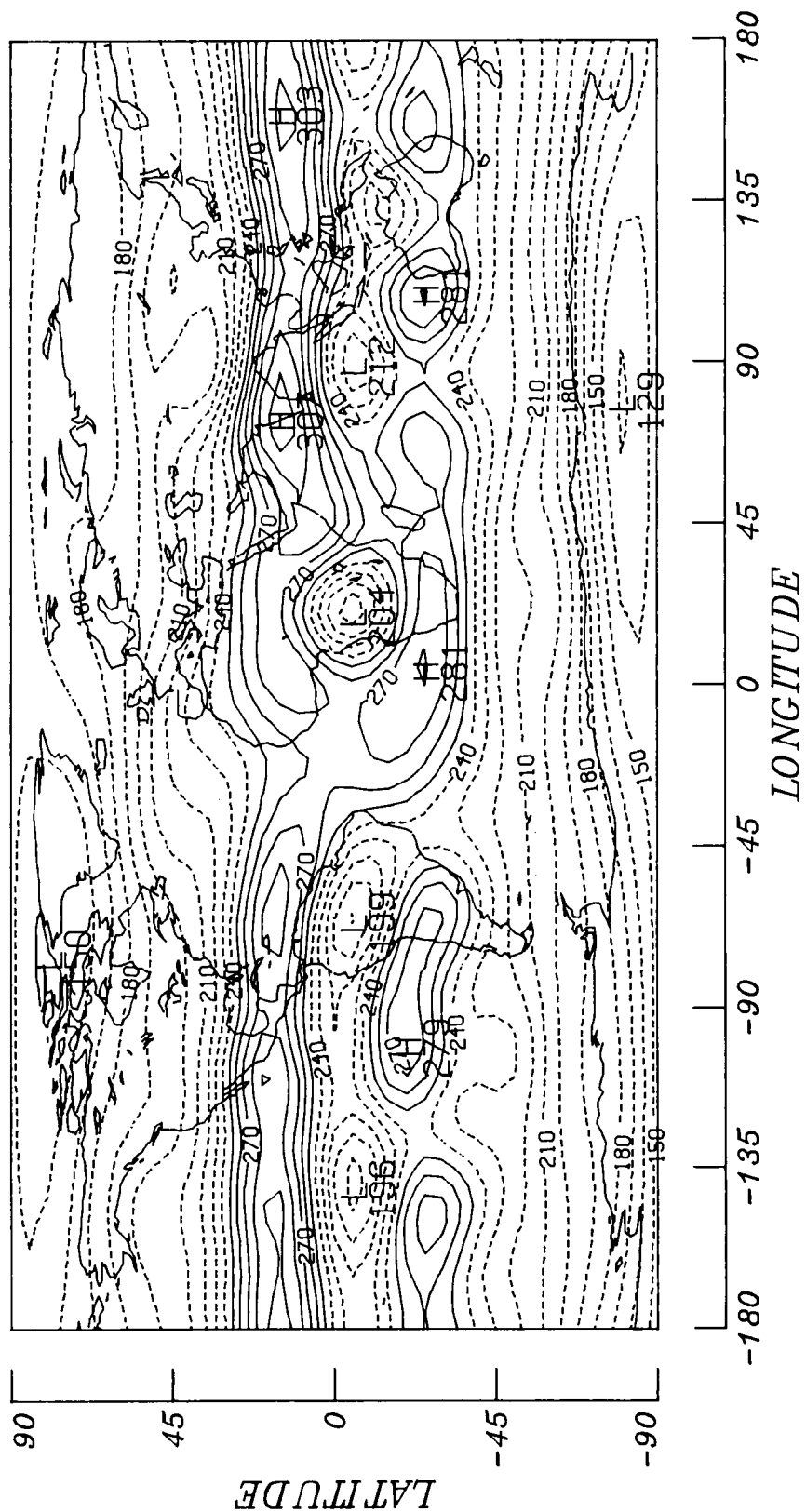


March 1983

| | | | | | | | | | | | | | m/n |
|---------|---------|--------|-------|-------|--------|-------|-------|-------|--------|--------|-------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 231.834 | .665 | -.250 | .122 | -.213 | -.133 | .144 | .211 | -.131 | .329 | .211 | -.261 | .455 | 12 |
| 1 | -4.301 | .739 | .342 | -.375 | -.349 | .508 | .225 | -.108 | 1.006 | -1.019 | .363 | -.300 | 11 |
| 2 | -28.502 | .047 | 2.063 | .342 | .405 | -.610 | .152 | -.216 | .617 | .555 | .326 | .010 | 10 |
| 3 | -.972 | -.831 | .642 | -.517 | -.235 | -.035 | .489 | -.697 | -1.344 | 1.386 | .371 | .955 | 9 |
| 4 | -5.220 | 2.018 | .784 | -.846 | 1.070 | -.402 | -.453 | -.053 | -1.805 | -1.442 | -.384 | 1.996 | 8 |
| 5 | 8.206 | -.186 | 1.028 | .314 | -1.171 | .310 | 1.478 | 1.102 | -.637 | -1.060 | -.070 | -2.246 | 7 |
| 6 | 4.285 | -2.641 | .264 | 1.343 | .416 | .377 | 1.064 | -.914 | 1.287 | 2.202 | -.373 | -1.266 | 6 |
| 7 | -6.148 | -1.129 | -.638 | .383 | 1.003 | 1.226 | .492 | 1.973 | -1.998 | -.509 | -.170 | -.541 | 5 |
| 8 | -6.264 | 1.556 | -.389 | -.613 | -1.299 | -.869 | -.131 | -.937 | -.480 | -2.515 | -.901 | 1.365 | 4 |
| 9 | 5.339 | 1.255 | .028 | -.212 | -.814 | -.863 | -.178 | .188 | .966 | 1.196 | 1.029 | 1.120 | 3 |
| 10 | 3.927 | -.094 | 1.771 | .377 | 1.615 | .656 | .713 | .133 | -1.262 | -.023 | .967 | .763 | 2 |
| 11 | -1.855 | -1.070 | .120 | -.202 | .314 | .026 | .120 | .084 | -.122 | -1.043 | -.239 | .214 | 1 |
| 12 | -1.228 | .608 | -.776 | .213 | -.931 | -.098 | -.926 | .266 | .578 | .498 | .724 | .029 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

March 1983

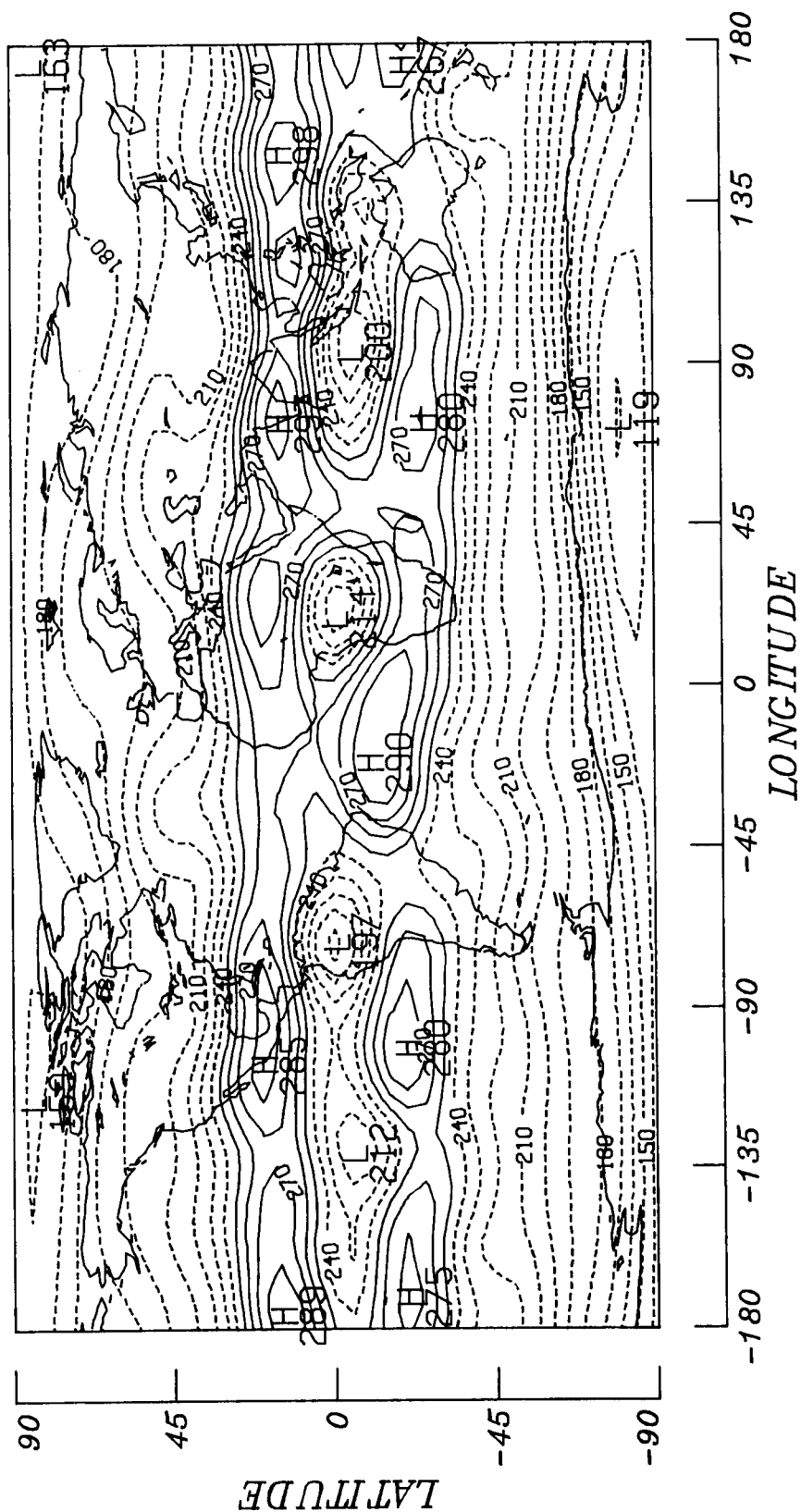


April 1983

| | | | | | | | | | | | | | m/n |
|-------|----------|--------|--------|-------|--------|-------|-------|-------|--------|--------|-------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 231.794 | .240 | -.076 | -.133 | .624 | .093 | .015 | .789 | -.335 | -.024 | .005 | -.886 | -.324 |
| 1 | -.269 | 1.541 | -.124 | -.220 | -.043 | .040 | .454 | -.350 | .315 | -.591 | .172 | .280 | -.376 |
| 2 | -.28.259 | .237 | 2.261 | .831 | -.469 | .519 | .038 | -.514 | .320 | .288 | .853 | -.030 | 3.142 |
| 3 | 1.270 | .142 | .203 | -.561 | -.250 | .041 | -.547 | -.348 | -.828 | .871 | .917 | -.286 | .120 |
| 4 | -4.800 | 2.616 | -1.850 | -.135 | .587 | -.593 | -.044 | .844 | -1.041 | -1.735 | -.465 | 1.770 | -1.570 |
| 5 | 5.156 | -.501 | .946 | .019 | -1.732 | -.515 | .698 | .632 | 1.013 | -1.529 | -.897 | -.089 | -2.066 |
| 6 | 4.116 | -2.122 | 2.161 | -.308 | -.162 | .437 | .213 | .142 | .844 | 1.743 | -.790 | -1.182 | 3.441 |
| 7 | -3.378 | .295 | -1.762 | -.651 | .304 | .285 | -.267 | 1.075 | -2.779 | -.521 | .106 | 1.141 | .216 |
| 8 | -7.563 | 1.679 | -.129 | .445 | -1.733 | -.456 | -.688 | -.489 | -.105 | -2.957 | .917 | 1.710 | .928 |
| 9 | 2.847 | -.151 | 1.515 | -.095 | -.382 | -.701 | -.465 | -.847 | -.197 | .497 | .624 | .570 | -1.914 |
| 10 | 4.602 | -.928 | .920 | .039 | 1.258 | .140 | .686 | .360 | -.580 | -.056 | .352 | 1.770 | .043 |
| 11 | -1.202 | -.353 | -.186 | .371 | -.105 | .123 | -.028 | .631 | -.875 | -.168 | -.320 | -.821 | 1.320 |
| 12 | -1.849 | 1.639 | .303 | .265 | -.723 | .215 | -.545 | -.077 | .559 | .442 | .939 | -.213 | .436 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

April 1983

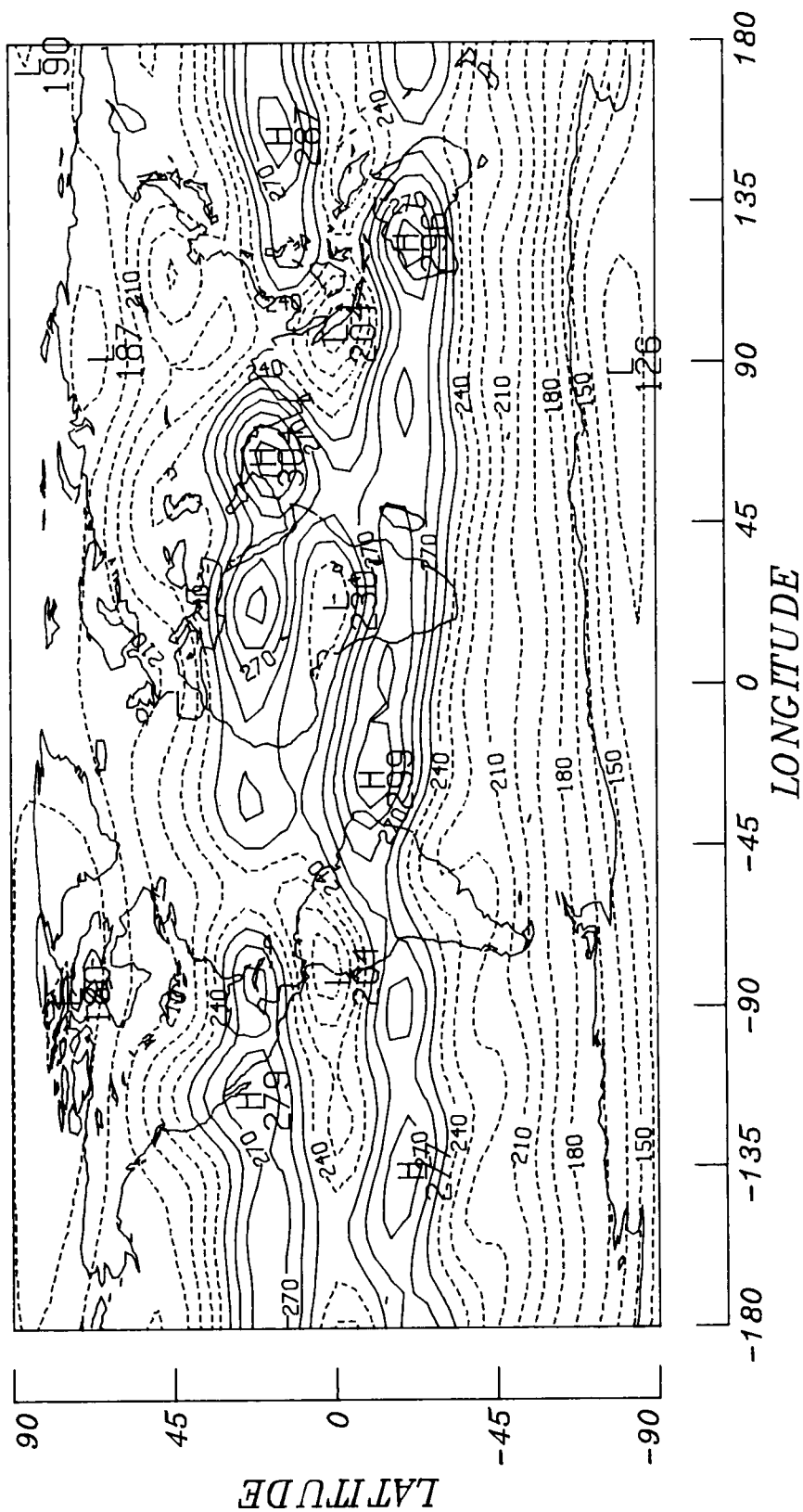


May 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|-------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 233.373 | .181 | -.519 | -.588 | .432 | -.001 | .071 | .122 | -.050 | -.353 | -.015 | -.087 | -.195 |
| 1 | 4.439 | 2.199 | -.256 | -.620 | .061 | -.513 | -.642 | -.593 | -.284 | -.117 | -.422 | -.373 | .433 |
| 2 | -26.680 | 1.111 | 2.371 | .486 | -.619 | .677 | .072 | .258 | -.210 | .397 | -.321 | -.610 | 2.952 |
| 3 | 4.358 | -1.509 | .832 | .021 | .389 | .727 | .358 | -.202 | -.370 | -.284 | 1.372 | -.071 | -.779 |
| 4 | -5.293 | 1.873 | -2.117 | -.978 | -1.921 | -.519 | .800 | -.195 | -.617 | -.518 | 1.057 | 1.823 | -2.083 |
| 5 | .655 | .781 | -1.143 | .469 | -.739 | .189 | 1.574 | .914 | .623 | .668 | -1.088 | -.156 | -.239 |
| 6 | 5.249 | -2.852 | 1.638 | 1.871 | .910 | .071 | .766 | .993 | .366 | .205 | -1.294 | -1.169 | 2.143 |
| 7 | 1.288 | -.843 | .263 | -.406 | -.252 | -.300 | -.182 | -.620 | -2.519 | -1.769 | 1.221 | -.679 | -1.155 |
| 8 | -6.583 | 2.491 | .769 | -.462 | -2.008 | -.805 | .570 | .483 | -.894 | -2.457 | .879 | .874 | 2.454 |
| 9 | -.161 | .379 | 1.174 | .127 | -1.055 | -.753 | .159 | -1.546 | -1.329 | .583 | -.220 | 2.170 | -.815 |
| 10 | 4.558 | -1.488 | .910 | -.616 | .548 | -.436 | .734 | -.168 | -.848 | .237 | -.284 | 3.930 | -.190 |
| 11 | .399 | -.562 | -.542 | -.727 | .461 | .428 | .545 | 1.070 | -.270 | .070 | .399 | -.063 | 1.668 |
| 12 | -1.519 | 1.478 | -.356 | 1.069 | .228 | .234 | -.473 | -.311 | -.506 | .490 | .201 | -.289 | .272 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

May 1983

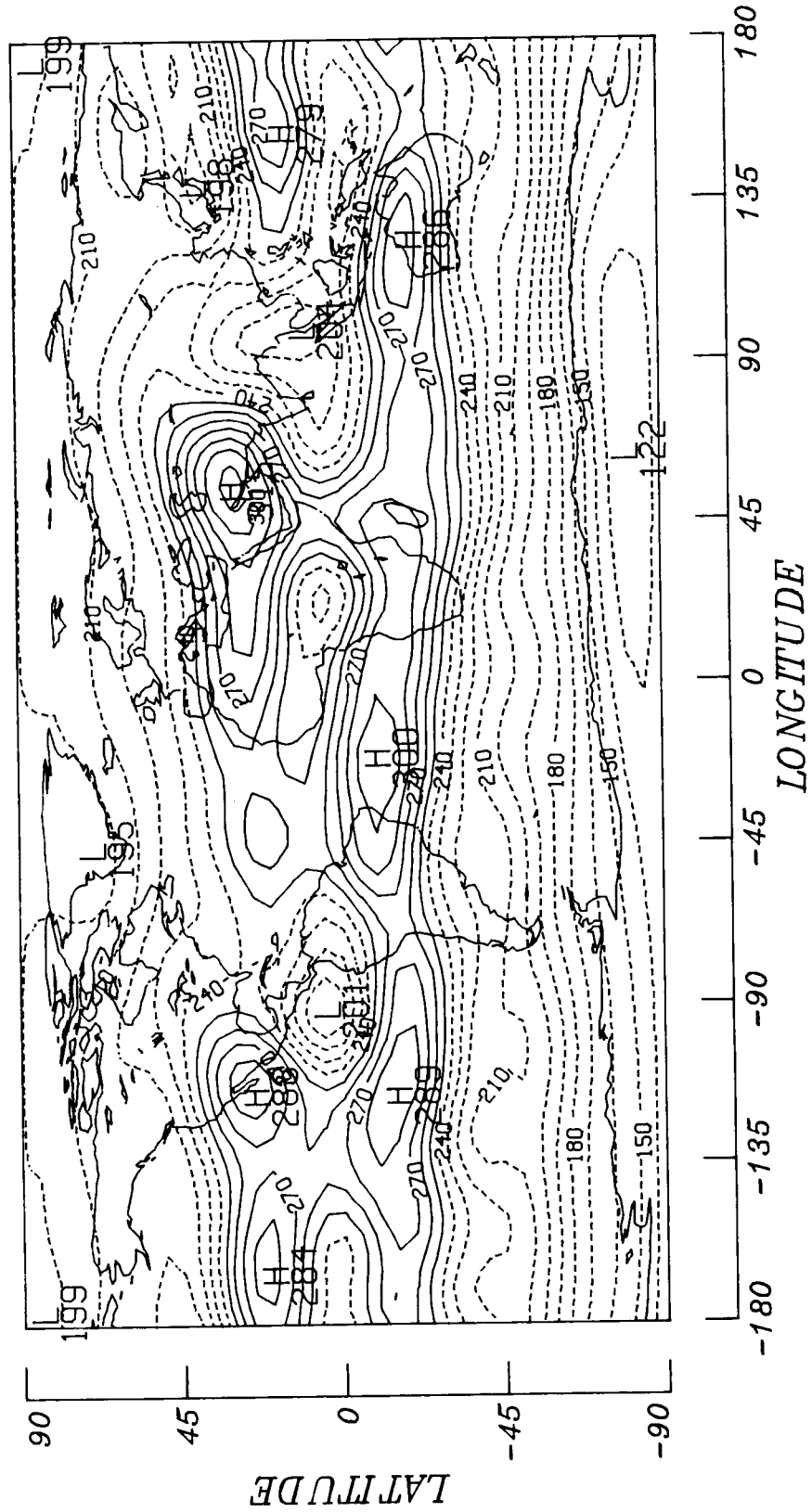


June 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 234.727 | .411 | -.588 | -.275 | -.590 | .366 | -.241 | .707 | .340 | -.582 | .315 | -.922 | .054 |
| 1 | 9.240 | 3.713 | .075 | .241 | .118 | .290 | .103 | -.394 | -.116 | .008 | -.442 | .080 | -.309 |
| 2 | -25.251 | 2.543 | 2.944 | .441 | -.115 | -.147 | .416 | -.677 | .428 | .027 | -.438 | 1.317 | 1.245 |
| 3 | 6.776 | -1.023 | 1.293 | .038 | .541 | .418 | .760 | .161 | .623 | -.136 | 1.643 | 1.119 | -.512 |
| 4 | -5.283 | 1.494 | -3.074 | -1.681 | -4.021 | .233 | .158 | .980 | -.897 | -.358 | .819 | .792 | -1.187 |
| 5 | -2.274 | -1.374 | -3.294 | -1.553 | -1.774 | -1.172 | -.292 | .461 | -1.286 | .240 | -1.672 | -1.483 | .233 |
| 6 | 4.546 | -3.675 | .739 | 1.824 | 1.721 | -.070 | 1.895 | -.166 | -.147 | -.463 | -.848 | -1.876 | 1.103 |
| 7 | 4.344 | -1.120 | 1.101 | .501 | 1.408 | .339 | 1.431 | .698 | -1.171 | -1.626 | 1.971 | -.563 | -2.302 |
| 8 | -5.841 | 1.888 | .924 | -1.069 | -.013 | -.754 | .192 | .737 | .130 | -1.837 | .712 | 1.603 | 2.867 |
| 9 | -3.307 | 1.858 | .677 | .474 | -.001 | .199 | .774 | .619 | -.673 | .689 | -.513 | 3.568 | 1.589 |
| 10 | 3.392 | -.030 | -.009 | .222 | .428 | .969 | .232 | -.135 | -.984 | .490 | .362 | 5.187 | -.410 |
| 11 | .876 | -1.312 | -1.140 | -.188 | .050 | .486 | -.960 | .625 | -.351 | .082 | -.036 | -.802 | -.691 |
| 12 | -.678 | .784 | -.432 | .725 | .322 | -.105 | -.594 | -.206 | .278 | -.237 | .296 | -.065 | -.173 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

June 1983



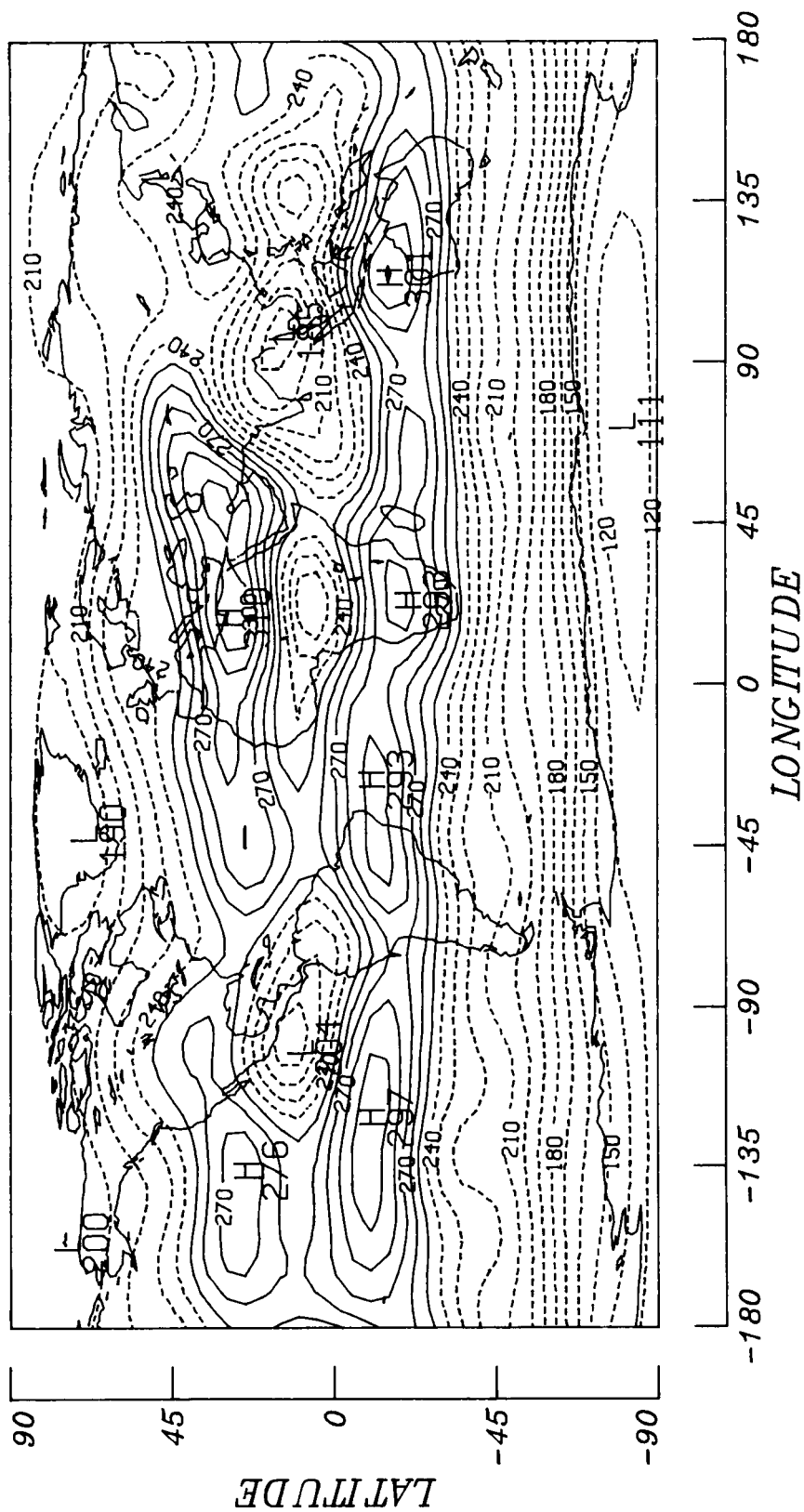
July 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 236.073 | -579 | -270 | -084 | -051 | .419 | .464 | .071 | -.238 | -.241 | -.683 | -.561 | -.743 |
| 1 | 12.521 | 4.215 | .543 | .247 | -.085 | .313 | -.046 | -.228 | -.250 | .756 | -.037 | 1.094 | .207 |
| 2 | -25.125 | 4.314 | 5.175 | 1.173 | .295 | .908 | .149 | .455 | .769 | .470 | .995 | 1.669 | 2.121 |
| 3 | 8.801 | -.228 | 3.255 | .300 | -.329 | 1.071 | .541 | 1.379 | .177 | -.315 | 1.476 | .300 | -1.344 |
| 4 | -7.675 | -.092 | -2.562 | -1.138 | -4.558 | .462 | -.197 | .493 | -1.277 | -.875 | -.096 | -.333 | -1.360 |
| 5 | -4.935 | -1.863 | -3.951 | -.735 | -2.199 | -.540 | .201 | -.633 | -.868 | -1.004 | -2.674 | -1.539 | .503 |
| 6 | 4.530 | -2.488 | -.178 | 1.371 | 1.313 | .764 | 1.193 | -.721 | -.766 | -1.054 | .580 | -.538 | 1.218 |
| 7 | 7.310 | -.904 | .383 | .239 | 1.116 | .174 | 1.175 | .785 | -1.081 | -.218 | 3.607 | .288 | -3.316 |
| 8 | -4.227 | .796 | 1.914 | -.914 | .149 | -.288 | .518 | .914 | .261 | .280 | .342 | 1.290 | 3.614 |
| 9 | -3.918 | 1.807 | 1.025 | .076 | .395 | .040 | .174 | -.590 | .101 | .314 | -1.278 | 3.828 | 2.752 |
| 10 | 1.733 | .041 | -.465 | 1.039 | -.013 | .938 | -.022 | .052 | -.130 | .348 | .830 | 4.950 | -.815 |
| 11 | 1.003 | -1.572 | -1.217 | .020 | -.814 | .507 | -.491 | .516 | -.498 | .084 | .580 | -.079 | -2.076 |
| 12 | .100 | .352 | -.422 | -.486 | .426 | -.534 | -.479 | -.157 | .031 | -.022 | .412 | -.293 | -.731 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

$$S_n^m$$

August 1983

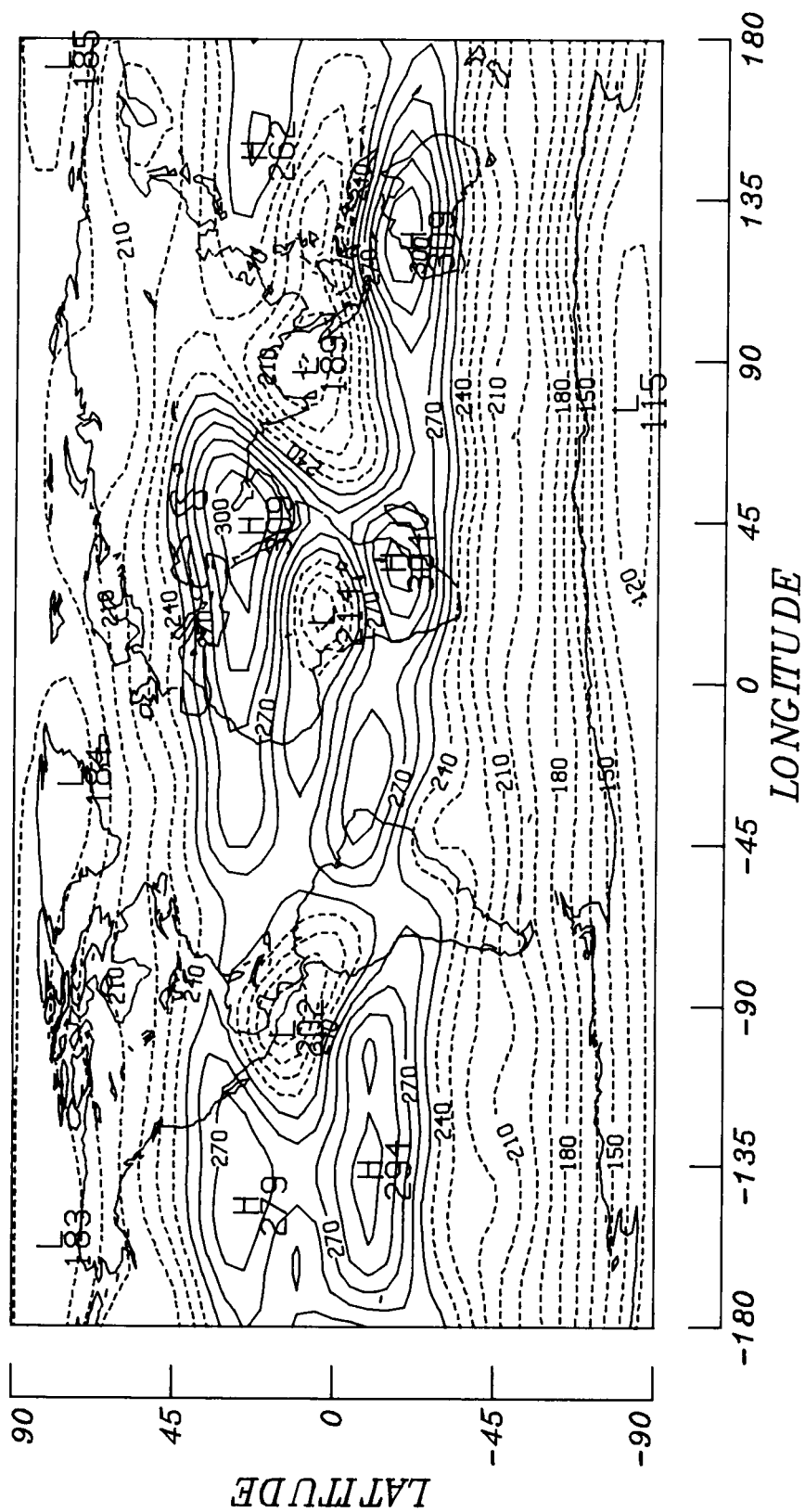


September 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.945 | -.017 | -.208 | -.600 | -.117 | -.511 | -.258 | -.594 | -.331 | -.820 | .581 | .012 | -.242 |
| 1 | 7.977 | 2.095 | .017 | -.115 | .061 | -.371 | .252 | -.871 | .637 | .516 | -.361 | .685 | .663 |
| 2 | -28.557 | 3.657 | 4.705 | .828 | .243 | .555 | -.020 | .285 | .837 | .689 | .103 | .319 | 1.624 |
| 3 | 6.422 | .119 | 3.342 | 1.058 | .034 | 1.043 | .213 | .790 | -.140 | .007 | 1.954 | .449 | -2.329 |
| 4 | -8.765 | -1.319 | -1.689 | -2.050 | -5.429 | -.200 | .650 | -.095 | -.777 | -.756 | .490 | .006 | .181 |
| 5 | -4.270 | -1.615 | -2.775 | -.823 | -2.159 | -1.540 | -.278 | -.834 | .010 | .301 | -1.622 | -1.373 | 2.639 |
| 6 | 5.086 | -.422 | .109 | 2.580 | .164 | .471 | .784 | -1.150 | .265 | .093 | .745 | -.274 | .389 |
| 7 | 6.845 | .320 | 1.146 | .080 | .654 | 1.145 | 1.384 | .983 | -1.773 | -1.034 | 1.763 | -.881 | -4.090 |
| 8 | -4.617 | .749 | .891 | -2.058 | .250 | -.242 | .254 | 1.067 | .341 | .019 | -.237 | .290 | 3.265 |
| 9 | -3.401 | .502 | -.197 | .290 | .120 | -.465 | -.972 | -.758 | -.023 | .567 | .149 | 3.513 | 2.151 |
| 10 | 1.064 | .042 | -.318 | 1.254 | -.144 | .427 | -.018 | .083 | -.720 | .100 | .110 | 4.242 | -.889 |
| 11 | 1.028 | -.204 | -1.328 | -.756 | -.468 | .257 | .832 | .802 | -.083 | -.418 | .404 | -.069 | -1.661 |
| 12 | .595 | .588 | -.323 | -.533 | .612 | -.418 | -.515 | .088 | .665 | .617 | -.007 | -.234 | -.139 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

September 1983



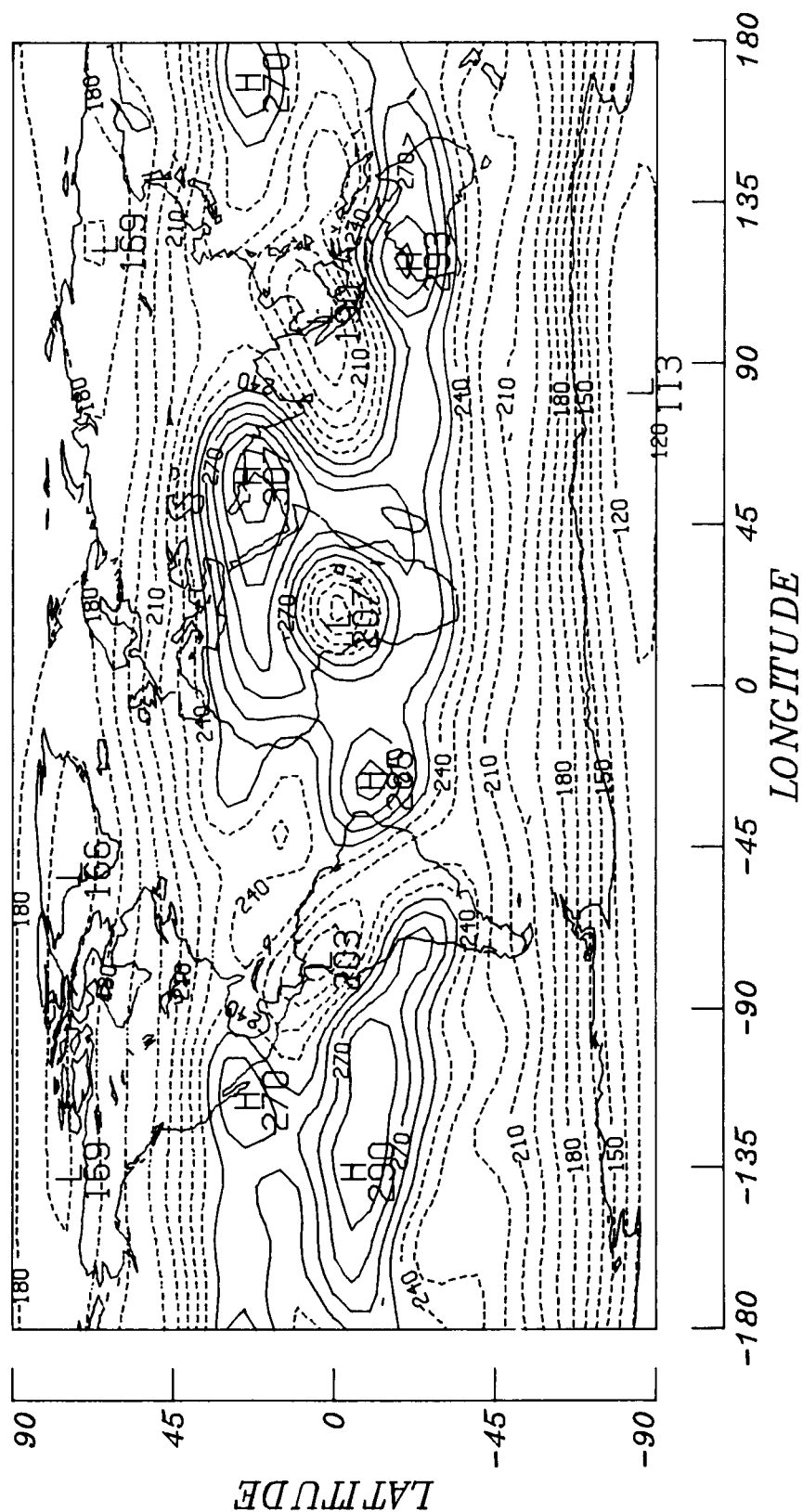
October 1983

C_n^m

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | | | | | | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 228.837 | .184 | .421 | -.092 | .127 | -.250 | -.497 | -.469 | -.511 | -.458 | .443 | .052 | -.185 |
| 1 | 1.006 | 1.947 | .351 | -.896 | .648 | .123 | .329 | .042 | .883 | -.388 | -.743 | -.728 | .825 |
| 2 | -28.481 | 3.050 | 2.837 | 1.072 | .079 | .244 | .752 | .292 | 1.143 | -.056 | .029 | .528 | 1.844 |
| 3 | 3.457 | -.686 | 2.804 | .784 | .787 | -.088 | -.207 | -.750 | -1.130 | .987 | 1.682 | .883 | -1.932 |
| 4 | -8.129 | -.517 | -1.338 | -2.185 | -2.534 | -.159 | -.283 | .377 | -1.846 | -.271 | .596 | .028 | .084 |
| 5 | 1.193 | -1.421 | -1.781 | -.835 | -.733 | -.470 | .386 | .731 | 1.096 | -.219 | -2.204 | .482 | 2.419 |
| 6 | 4.787 | .862 | 1.575 | 2.708 | 1.059 | .563 | 2.208 | -.702 | .730 | 1.329 | -.518 | .618 | 1.486 |
| 7 | 5.204 | .823 | .544 | .539 | .324 | .584 | 1.046 | .800 | -3.227 | -1.451 | 1.641 | -1.875 | -3.868 |
| 8 | -3.939 | -1.473 | -.524 | -.943 | -.815 | -1.003 | .086 | .950 | .480 | -3.520 | -.272 | -1.656 | .824 |
| 9 | -1.725 | -.382 | -.076 | -.279 | .333 | -.856 | -.506 | -1.334 | .189 | .583 | 1.467 | 4.150 | 1.582 |
| 10 | 1.318 | 1.098 | .680 | .022 | .925 | .823 | .033 | .033 | -1.439 | -.372 | -.037 | 6.895 | .515 |
| 11 | .662 | .235 | -.858 | -.581 | .018 | .655 | .513 | .874 | -.052 | -.510 | -.365 | .714 | -.808 |
| 12 | .598 | .162 | -.049 | .093 | .161 | -.850 | -.322 | -.276 | .948 | .380 | .632 | .483 | .391 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

October 1983

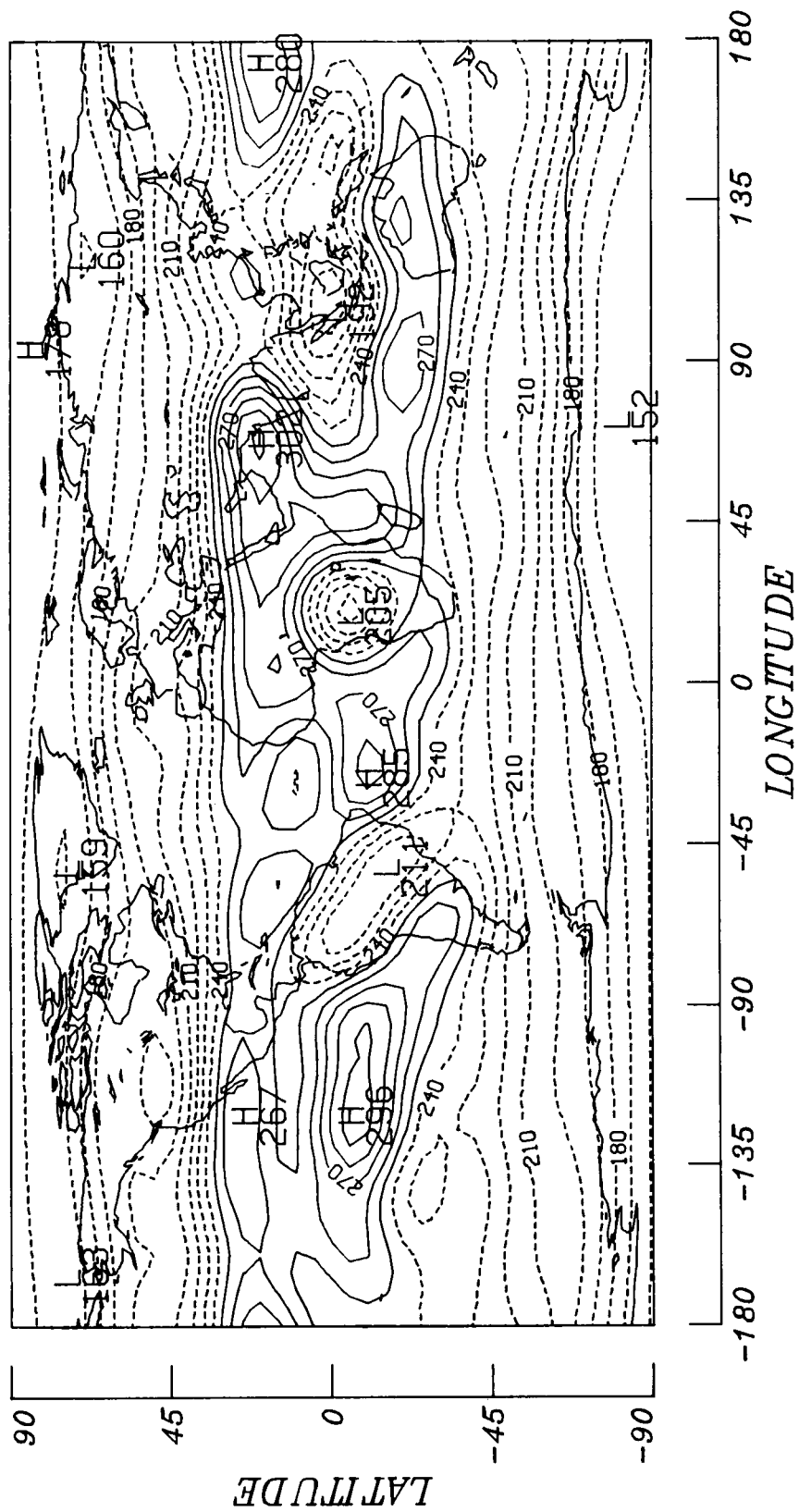


November 1983

| | | | | | | | | | | | | | m/n |
|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 |
| 231.318 | .206 | .086 | .598 | .275 | -.380 | .249 | -.393 | -.556 | -.101 | .774 | -.584 | -.225 | 11 |
| -3.185 | 2.120 | .894 | -.203 | .052 | .485 | .284 | .116 | .538 | -1.302 | -.581 | -.843 | 1.739 | 10 |
| -26.522 | 1.885 | .840 | -.581 | -1.078 | .073 | -.223 | .158 | 1.381 | -.393 | -.523 | .810 | 2.070 | 9 |
| -1.300 | -1.638 | 2.368 | -.585 | .523 | -.982 | .213 | -.087 | -.601 | 1.777 | .893 | 1.385 | -2.319 | 8 |
| -4.779 | -.154 | -.113 | -2.232 | .131 | -.654 | 1.279 | -.089 | -1.973 | -.887 | .833 | .002 | .303 | 7 |
| 2.830 | -.075 | -1.012 | .093 | -1.221 | .025 | -.027 | .424 | 1.124 | -1.488 | -1.043 | .273 | 1.950 | 6 |
| 4.494 | 1.129 | 1.975 | 2.970 | .684 | .085 | 1.363 | -.616 | 1.387 | 2.557 | -.877 | 2.216 | .446 | 5 |
| .887 | -.200 | .933 | .029 | .409 | .954 | 1.354 | .675 | -2.814 | -.115 | .478 | -1.159 | -3.730 | 4 |
| -4.481 | -1.087 | -.583 | -1.390 | -1.151 | -.349 | .174 | .337 | 1.650 | -3.891 | -.594 | -3.471 | .465 | 3 |
| -1.519 | -.029 | -1.054 | -.330 | .589 | -.538 | -.598 | -.897 | -.499 | 1.024 | .562 | 2.019 | .484 | 2 |
| 1.949 | .539 | -.219 | .890 | 1.642 | .541 | .212 | -.698 | -1.451 | -.184 | -.149 | 4.987 | -.133 | 1 |
| 2.255 | .013 | -.302 | .389 | -.371 | .365 | .232 | .478 | .732 | -.317 | .862 | .396 | -1.512 | |
| .535 | -.183 | .172 | -.052 | -.123 | -.294 | -.389 | .322 | .997 | .288 | .428 | -.505 | .385 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

November 1983

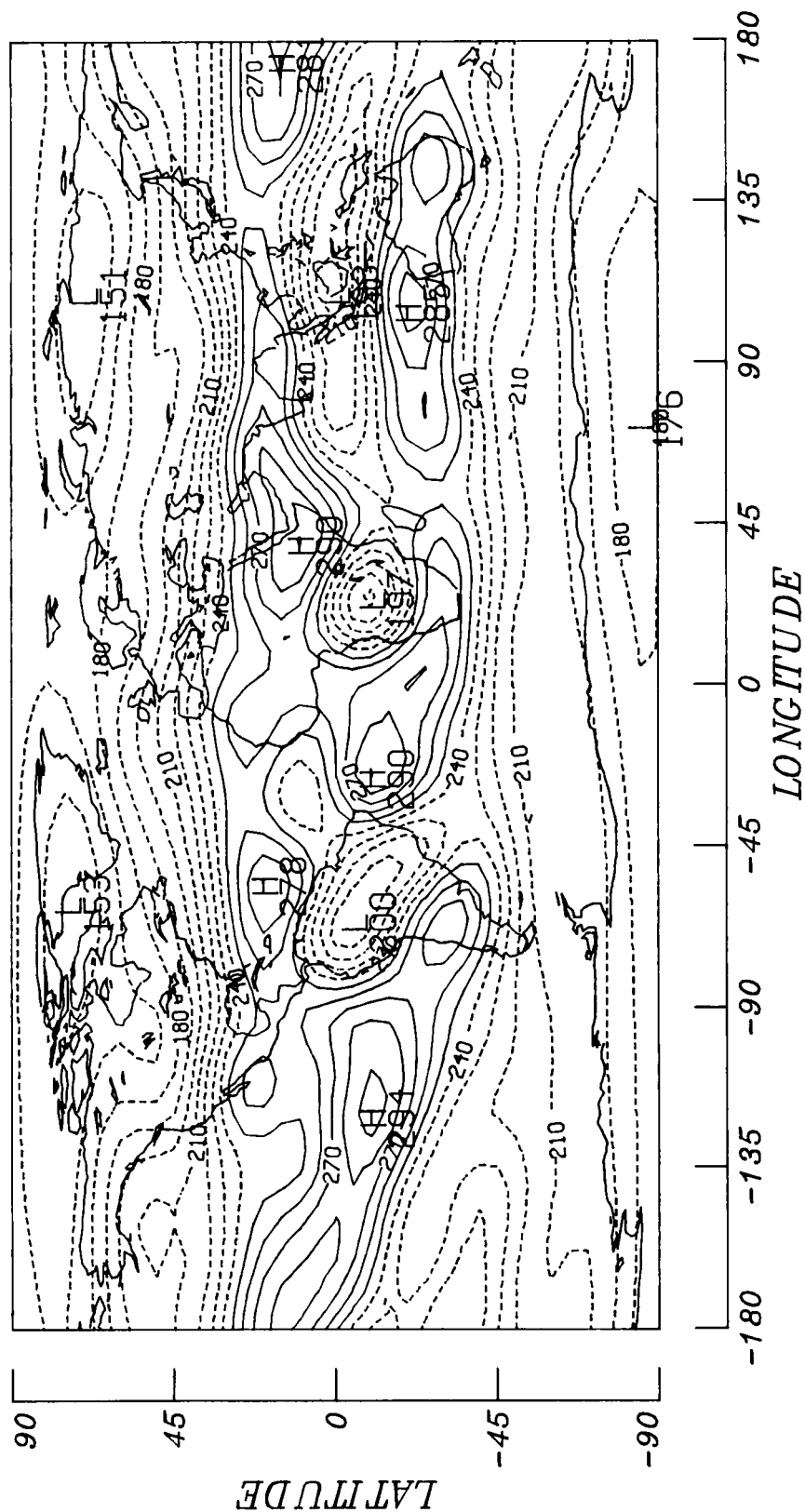


December 1983

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.786 | .681 | -.751 | .006 | .254 | -.221 | -.378 | -.783 | -.491 | -.218 | 1.441 | -.649 | -.383 |
| 1 | -7.755 | 1.043 | .486 | -.965 | -.159 | .315 | .205 | -.142 | .420 | -.769 | .846 | -.037 | .928 |
| 2 | -25.079 | .563 | 2.344 | .598 | -.441 | -.113 | .436 | .059 | 1.071 | -.497 | -1.476 | 1.161 | 2.235 |
| 3 | -2.491 | -.512 | 3.418 | 1.136 | .001 | -.756 | -.621 | -.744 | -.922 | 2.030 | .332 | .171 | -2.086 |
| 4 | -3.535 | .238 | 1.190 | -3.013 | 1.884 | .096 | .042 | .019 | -1.550 | .086 | 1.471 | -1.404 | -1.212 |
| 5 | 3.818 | -1.456 | -.060 | -1.031 | -1.396 | -.606 | -.911 | .640 | 1.292 | -2.200 | -2.117 | .735 | 2.400 |
| 6 | 6.133 | -.169 | 2.507 | 4.293 | -.323 | -.893 | .254 | -.889 | 1.156 | 1.512 | -1.902 | 4.102 | 1.153 |
| 7 | -2.151 | .880 | .883 | -.301 | .485 | 1.335 | .748 | 1.620 | -2.199 | .407 | 1.028 | -.082 | -3.606 |
| 8 | -4.265 | -.126 | -1.676 | -3.355 | -1.175 | -.086 | .848 | .619 | .638 | -2.506 | -.759 | -3.172 | .424 |
| 9 | 1.152 | .436 | -.910 | .522 | .480 | -.248 | .153 | -.795 | .094 | .572 | .179 | 1.458 | 1.646 |
| 10 | 1.397 | .615 | 1.878 | 1.213 | 1.322 | .438 | -.353 | -.511 | -1.387 | -.127 | -.192 | 3.415 | .413 |
| 11 | 1.375 | -.679 | .352 | -.516 | -.595 | -.116 | -.232 | .350 | .087 | -.559 | -.609 | .180 | -2.124 |
| 12 | .195 | -.172 | -.329 | .393 | .039 | -.097 | -.023 | .080 | .829 | .473 | .821 | -.205 | .529 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

December 1983

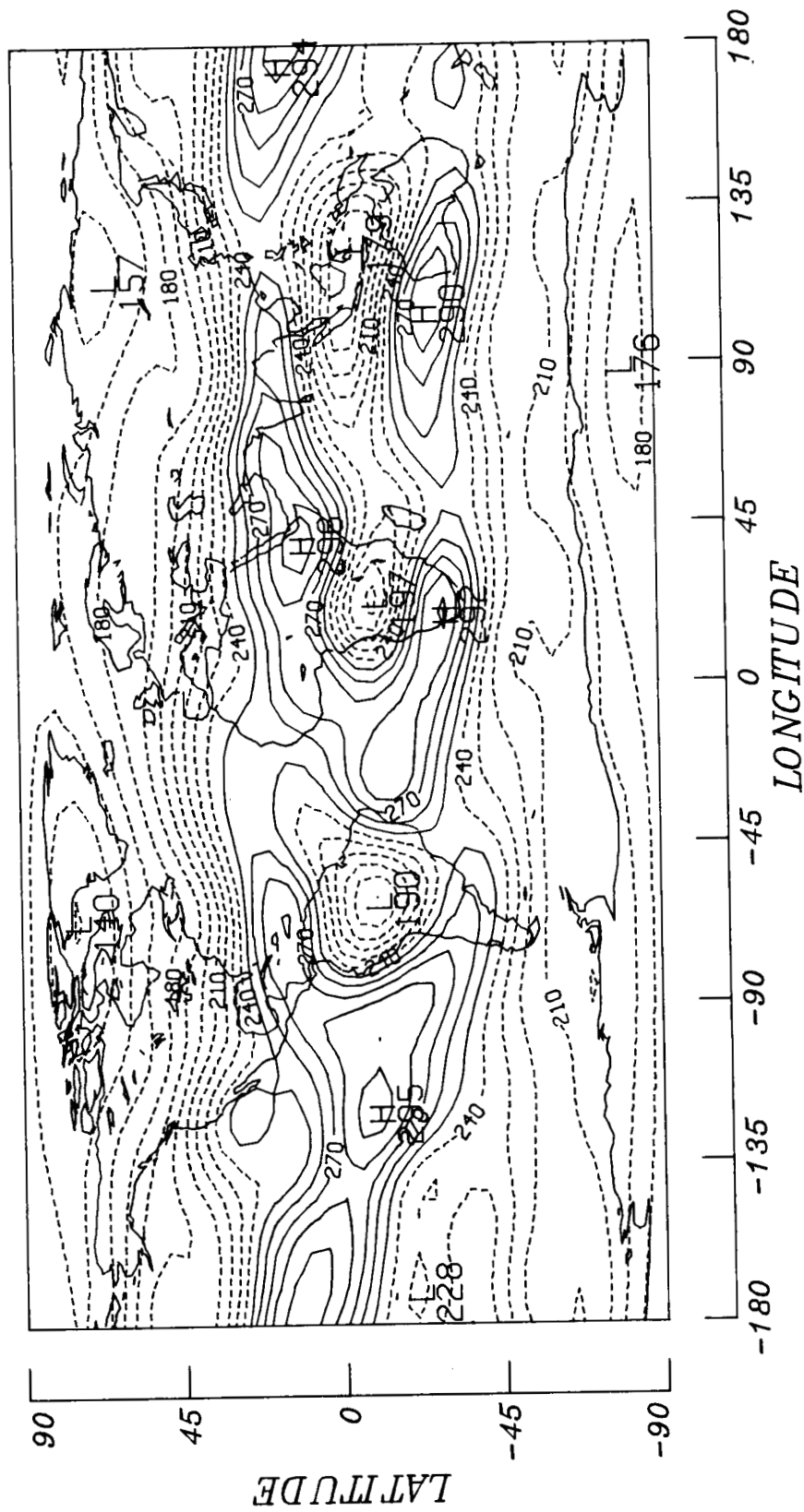


January 1984

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.823 | -.081 | .083 | -.970 | -.485 | -.286 | .164 | -.298 | .017 | .260 | .258 | -.476 | .095 |
| 1 | -10.172 | 1.130 | .841 | -.033 | -.145 | .924 | -.209 | .137 | .888 | -1.779 | .950 | .828 | -.017 |
| 2 | -25.458 | .341 | 3.367 | .197 | .101 | .239 | .405 | -.077 | .132 | .084 | -1.127 | 1.157 | 2.198 |
| 3 | -3.774 | -.163 | 3.026 | .479 | -.503 | -.405 | .504 | -.576 | -.981 | 3.343 | -.288 | -.156 | -2.143 |
| 4 | -3.339 | 1.183 | -.278 | -3.425 | 3.214 | .596 | -1.089 | .163 | -.844 | -1.294 | 1.739 | -1.329 | -1.828 |
| 5 | 5.568 | -1.888 | .164 | .345 | -1.980 | -1.115 | .157 | -.071 | 1.486 | -3.824 | -.607 | .278 | 3.261 |
| 6 | 6.905 | -.512 | 3.266 | 3.904 | -1.347 | .713 | -.764 | -1.051 | .341 | 1.782 | -2.130 | 3.628 | 3.412 |
| 7 | -4.243 | 1.512 | .166 | -.856 | .775 | -.164 | .982 | .538 | -2.140 | .184 | .498 | .730 | -2.939 |
| 8 | -3.583 | -.143 | -1.755 | -2.346 | -.994 | -.508 | .672 | .177 | .264 | -3.784 | .455 | -2.835 | -.152 |
| 9 | 2.895 | -.346 | -.338 | -.137 | .953 | .099 | -.765 | -1.116 | .103 | .890 | .693 | 1.330 | 3.327 |
| 10 | .385 | 1.246 | 1.532 | -.090 | 2.010 | .201 | .135 | -.191 | -.983 | -.847 | .378 | 4.599 | 1.079 |
| 11 | .510 | .002 | -.057 | .530 | -.958 | -.010 | .277 | .015 | .351 | .033 | .032 | .206 | -4.361 |
| 12 | .410 | -1.411 | -.444 | 1.214 | -.728 | .387 | -.338 | -.117 | .409 | .438 | -.153 | .141 | .560 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

January 1984

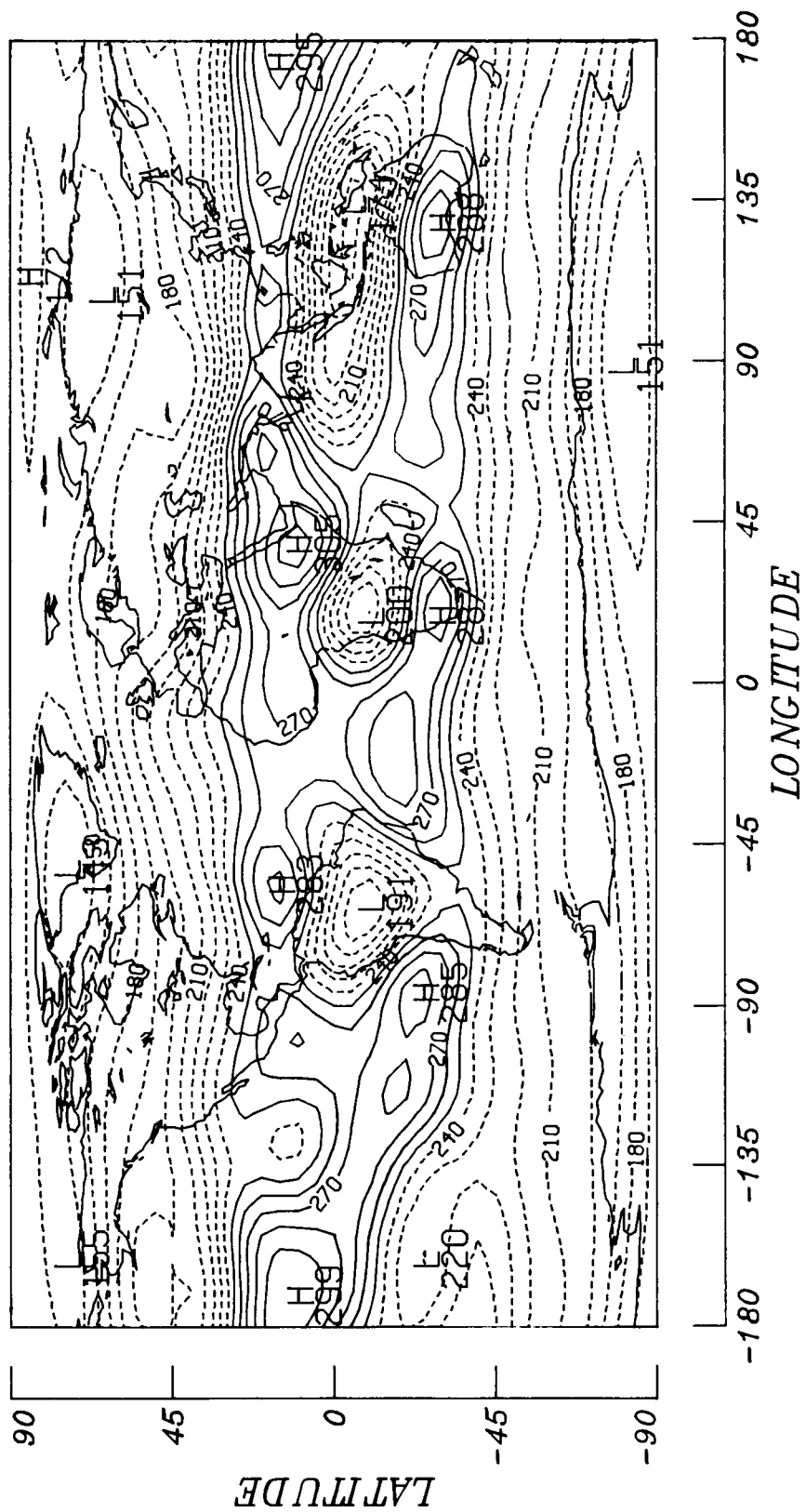


February 1984

| | | | | | | | | | | | | | m/n |
|------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.426 | .772 | .565 | -1.149 | -.216 | -.188 | -.146 | -.038 | .118 | -.005 | 1.187 | -.734 | .710 |
| 1 | -8.283 | 2.139 | .371 | .411 | .105 | .048 | -.493 | .498 | -.217 | -1.078 | 1.385 | -1.030 | .053 |
| 2 | -26.878 | .003 | 4.358 | -.318 | -.524 | .211 | .354 | -.774 | .202 | -.111 | -1.832 | 1.236 | 1.666 |
| 3 | -2.527 | -.418 | 3.380 | -.641 | -.447 | -.988 | .302 | -1.191 | -.720 | 1.812 | -.203 | 1.928 | -1.750 |
| 4 | -4.960 | 1.638 | -1.196 | -2.888 | 1.432 | -.513 | -1.084 | .951 | -.971 | -.590 | 2.432 | -1.244 | -.997 |
| 5 | 7.068 | -1.344 | -1.078 | 1.356 | -1.367 | -1.991 | .186 | .217 | .792 | -2.659 | -1.249 | -.786 | 3.380 |
| 6 | 5.738 | -1.105 | 3.392 | 3.692 | -.500 | .236 | .023 | -.497 | .174 | 1.143 | -1.970 | 3.884 | 3.945 |
| 7 | -4.628 | 1.118 | .828 | -1.579 | .851 | .298 | .633 | 1.099 | -3.373 | .985 | 1.557 | .808 | -2.952 |
| 8 | -5.133 | -.180 | -2.097 | -1.538 | -.096 | -.050 | .244 | 1.655 | .306 | -3.654 | .627 | -2.940 | -.676 |
| 9 | 3.383 | -.431 | -.474 | .955 | -.114 | -.382 | .071 | -1.001 | -.540 | .406 | .051 | 1.204 | .762 |
| 10 | 2.122 | 1.124 | 1.400 | -.390 | 1.063 | -.037 | .108 | -.177 | -.460 | -.701 | .382 | 4.572 | -.435 |
| 11 | .557 | -.197 | -.419 | .169 | .205 | .133 | -.112 | .631 | .478 | -.136 | .219 | .741 | -3.577 |
| 12 | .204 | -1.040 | -.382 | 1.211 | -.408 | .408 | .208 | -.235 | .262 | .520 | .127 | .025 | .277 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

February 1984

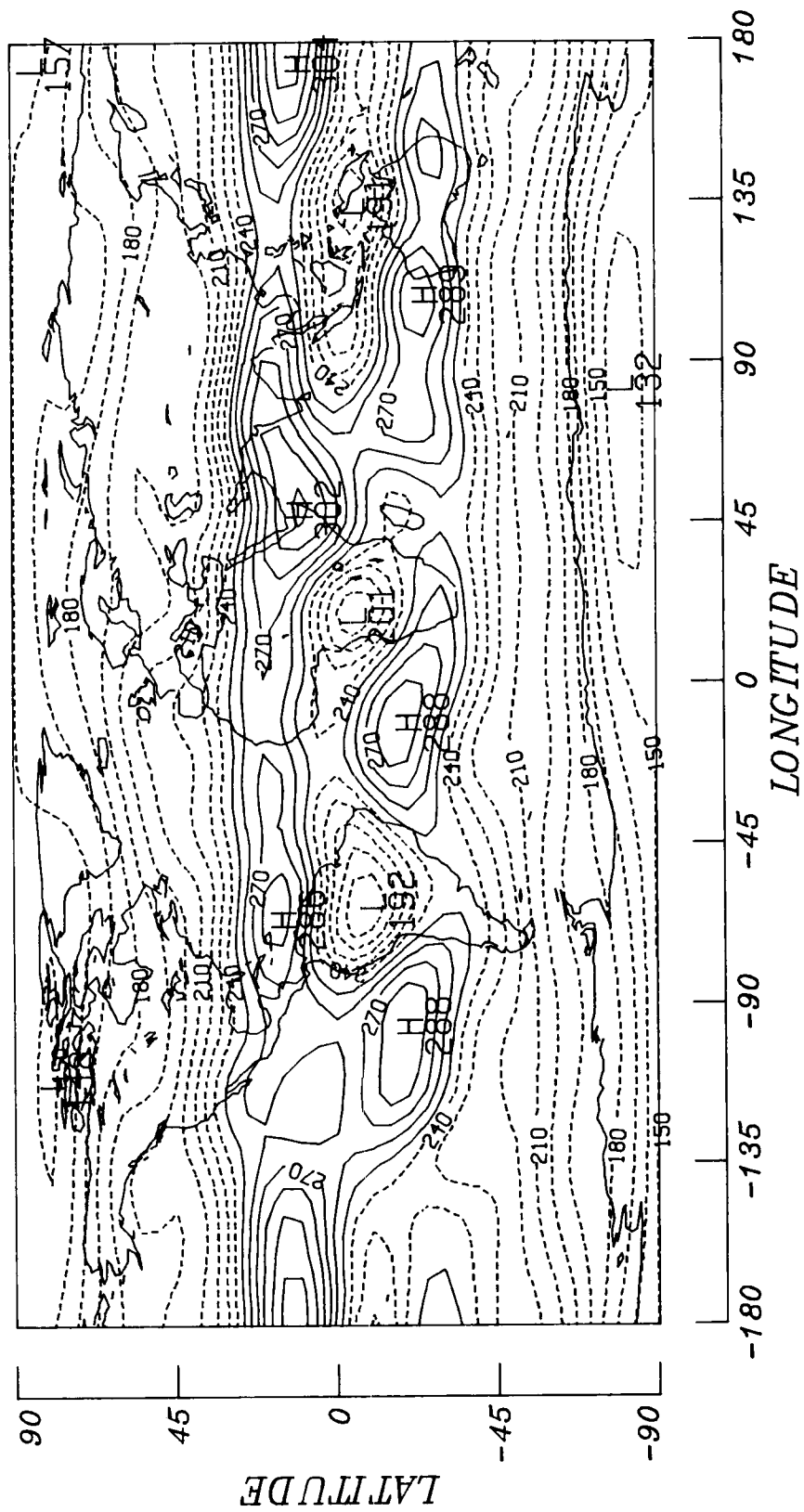


March 1984

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.488 | .528 | -.112 | -.869 | -.504 | -.029 | .394 | -.440 | .077 | -.313 | .817 | -.786 | 1.043 |
| 1 | -4.281 | .421 | .507 | .113 | -.133 | -.195 | .092 | -.195 | .165 | -.661 | 1.066 | -.828 | -.133 |
| 2 | -27.905 | .944 | .108 | .578 | .768 | .452 | -.176 | -.512 | .341 | -.240 | -.757 | 1.126 | 1.804 |
| 3 | -.228 | .290 | 2.369 | -1.132 | -.596 | -.215 | -.227 | -.385 | -.544 | 1.833 | -.441 | 1.115 | -1.308 |
| 4 | -5.026 | 1.884 | 1.450 | -2.422 | 2.507 | -.354 | -.521 | 1.144 | -.823 | -.839 | .708 | -1.226 | -.764 |
| 5 | 6.767 | -.993 | -.961 | 1.002 | -1.943 | -.619 | .338 | .018 | 1.446 | -2.737 | -.730 | -.011 | .538 |
| 6 | 4.428 | -1.234 | 1.370 | 4.343 | .436 | .158 | -.152 | -1.147 | 1.180 | 1.508 | -1.186 | 3.368 | 2.915 |
| 7 | -5.385 | .658 | 1.145 | -1.399 | 1.008 | .812 | .433 | .728 | -2.089 | .917 | .775 | .058 | -.912 |
| 8 | -6.915 | 1.268 | -.236 | -2.845 | -1.249 | -.552 | -.152 | -.287 | .053 | -3.923 | -.841 | -2.950 | 1.731 |
| 9 | 3.581 | -.256 | -.998 | .783 | -.390 | -.217 | -.090 | -.404 | .111 | .884 | -.656 | 1.014 | -.293 |
| 10 | 3.526 | -.711 | .771 | 1.295 | 1.397 | .069 | .577 | -.498 | -.706 | -.661 | .293 | 3.999 | -.598 |
| 11 | -.814 | .170 | .606 | -.500 | -.334 | -.089 | .222 | .203 | .108 | .254 | -.263 | -.112 | -.761 |
| 12 | -.412 | 1.110 | -.103 | .136 | -.094 | .699 | -.307 | .555 | .829 | .660 | .858 | .404 | .202 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

March 1984



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OF POOR QUALITY

April 1984

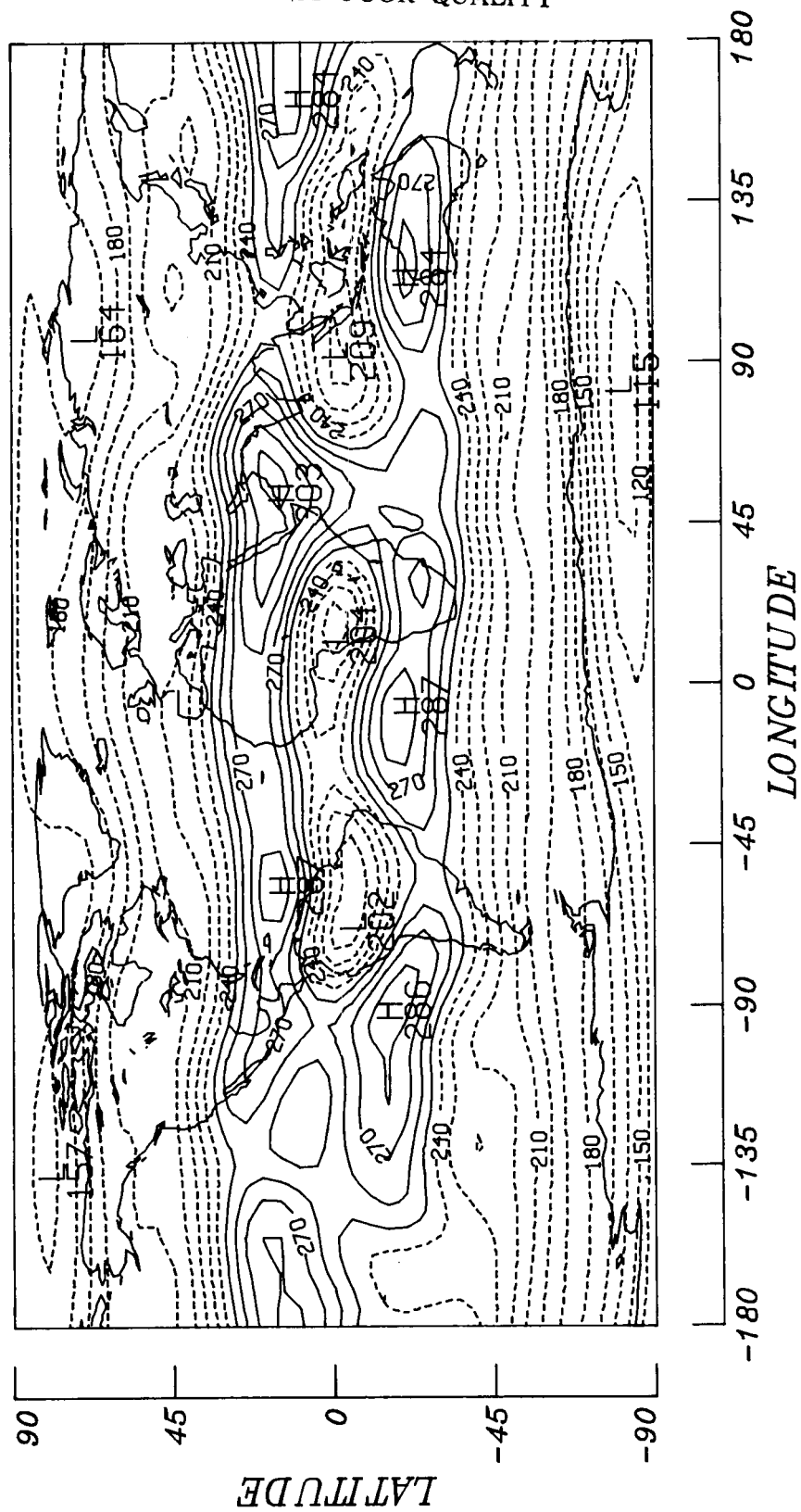
| | | | | | | | | | | | | | m/n |
|-------|----------|--------|-------|--------|-------|-------|-------|--------|--------|--------|-------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | .231.323 | .284 | -.127 | -.757 | -.235 | .296 | .279 | -.045 | -.602 | -.760 | .267 | -1.398 | .705 |
| 1 | -.115 | 2.003 | .154 | .346 | .286 | .319 | .085 | -.503 | -.190 | -.505 | -.071 | -1.209 | -.170 |
| 2 | -28.087 | 2.095 | 1.310 | .125 | .191 | -.152 | .071 | -.507 | .521 | .630 | -.307 | 1.328 | 2.208 |
| 3 | 1.695 | 1.293 | 1.074 | -1.276 | -.447 | -.479 | .103 | -.504 | -.529 | .815 | .847 | 2.051 | -1.085 |
| 4 | -6.998 | 1.076 | .528 | -2.540 | -.689 | -.281 | -.024 | .860 | -1.084 | -1.039 | 1.360 | -.399 | -.709 |
| 5 | 4.080 | -2.947 | -.909 | .810 | -.311 | -.791 | .804 | 1.346 | .773 | -.889 | .101 | -1.055 | -.283 |
| 6 | 5.318 | -.714 | .652 | 3.993 | .231 | .071 | .710 | -1.132 | .116 | 1.225 | .238 | 1.708 | 2.132 |
| 7 | -2.456 | 2.694 | 1.013 | -.552 | .543 | .860 | .421 | .648 | -3.654 | -.712 | -.221 | -.329 | -1.885 |
| 8 | -7.949 | .419 | .146 | -8.148 | -.320 | -.228 | .177 | .832 | .092 | -2.517 | -.971 | -1.237 | 1.217 |
| 9 | 1.636 | -1.390 | -.023 | 1.134 | -.582 | -.655 | .509 | -1.027 | -.257 | -.517 | 1.765 | 2.027 | -.656 |
| 10 | 4.152 | .126 | .850 | 1.525 | .107 | .142 | .482 | .048 | -.252 | -.094 | -.068 | 4.311 | -.344 |
| 11 | .484 | .153 | -.269 | -.985 | .744 | .274 | -.245 | .526 | .330 | .170 | -.531 | -.011 | -1.470 |
| 12 | -.548 | 1.130 | -.013 | .528 | .937 | .044 | -.410 | .401 | .087 | -.104 | .679 | .128 | .801 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

C_n^m

S_n^m

ORIGINAL PAGE IS
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April 1984



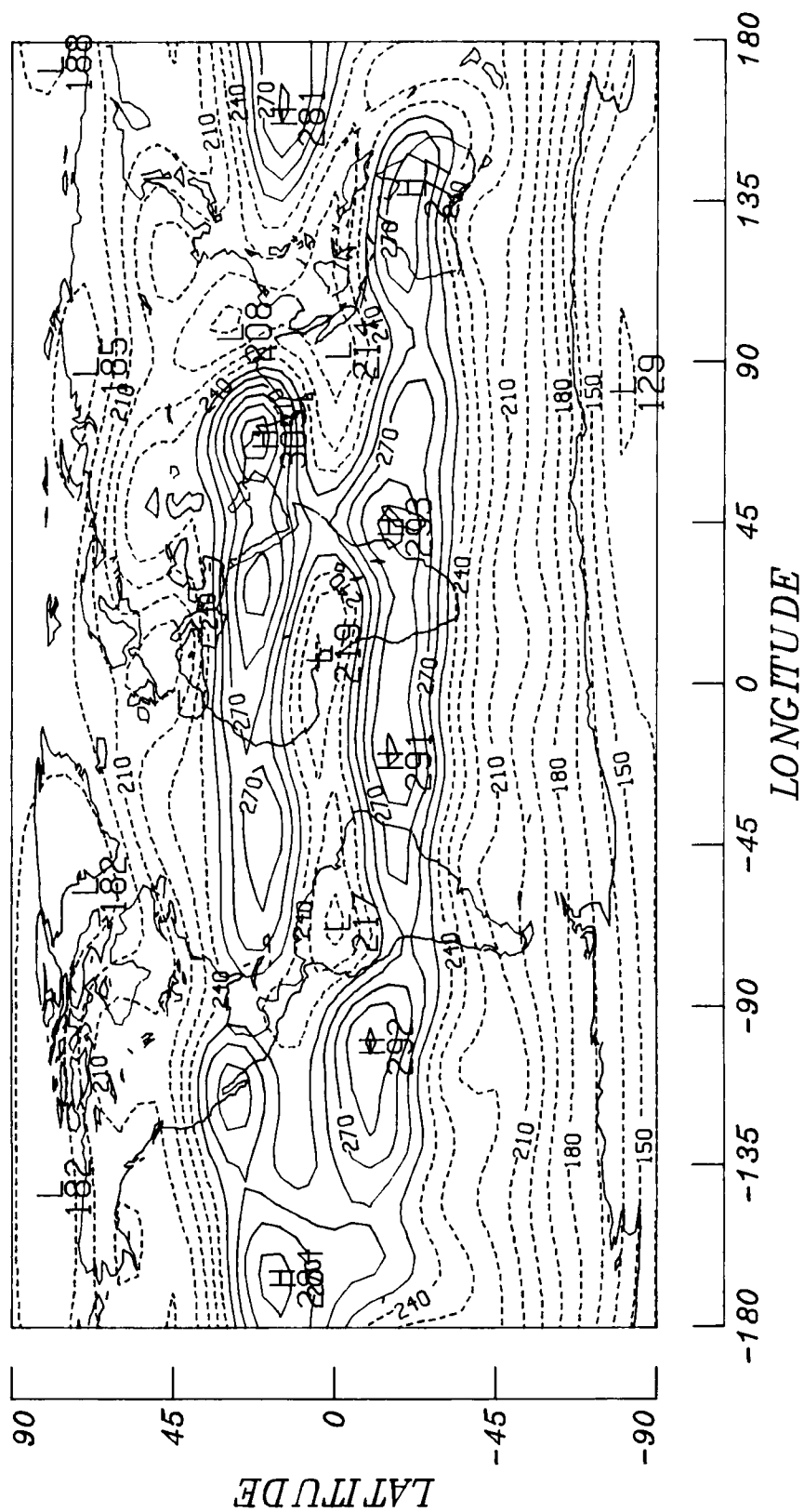
May 1984

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 233.226 | -0.067 | -4.430 | .259 | -.104 | .004 | -.140 | .780 | -.624 | -.145 | .384 | -1.324 | .680 |
| 1 | 4.921 | 2.788 | .367 | -.579 | -.450 | -.687 | .276 | -.617 | -.219 | -.452 | .170 | -1.485 | .921 |
| 2 | -25.859 | 1.570 | 1.522 | .739 | .393 | .201 | .087 | -.995 | -.109 | .238 | .438 | 1.073 | 1.833 |
| 3 | 4.250 | .476 | .899 | -1.427 | -.561 | -.798 | .003 | .080 | -.985 | .260 | .541 | 1.530 | -1.764 |
| 4 | -5.228 | 1.935 | -1.644 | -2.621 | -1.728 | -.295 | .194 | .869 | -1.268 | -.415 | .422 | .083 | -1.806 |
| 5 | .041 | -3.060 | -2.417 | .010 | -.680 | -.592 | -.485 | .958 | .324 | .034 | .477 | -.196 | -.033 |
| 6 | 4.563 | -2.482 | .594 | 3.249 | -.536 | -.024 | .014 | 1.173 | 1.067 | -.648 | .024 | .984 | 1.460 |
| 7 | 1.520 | 3.055 | 1.782 | .865 | -1.350 | 1.093 | .962 | .398 | -1.748 | -1.059 | -.195 | -.408 | -2.111 |
| 8 | -6.718 | 1.441 | 1.195 | -2.125 | -.095 | -.692 | .215 | -.688 | -.272 | -2.553 | -.469 | -.574 | 2.261 |
| 9 | -1.485 | -2.054 | -.096 | -.412 | -.239 | -1.722 | .940 | -.906 | -.818 | .821 | 1.011 | 2.159 | 1.636 |
| 10 | 4.082 | -.514 | -1.137 | 1.253 | -.452 | -.157 | .234 | .084 | -1.144 | .272 | -.232 | 4.968 | -.137 |
| 11 | 1.345 | .511 | -.484 | .332 | .188 | .212 | -.916 | .594 | .158 | .345 | .578 | -.074 | -.695 |
| 12 | -.427 | .755 | .166 | .573 | .998 | .018 | -.252 | -.008 | .209 | -.088 | .192 | .160 | -.123 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

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May 1984



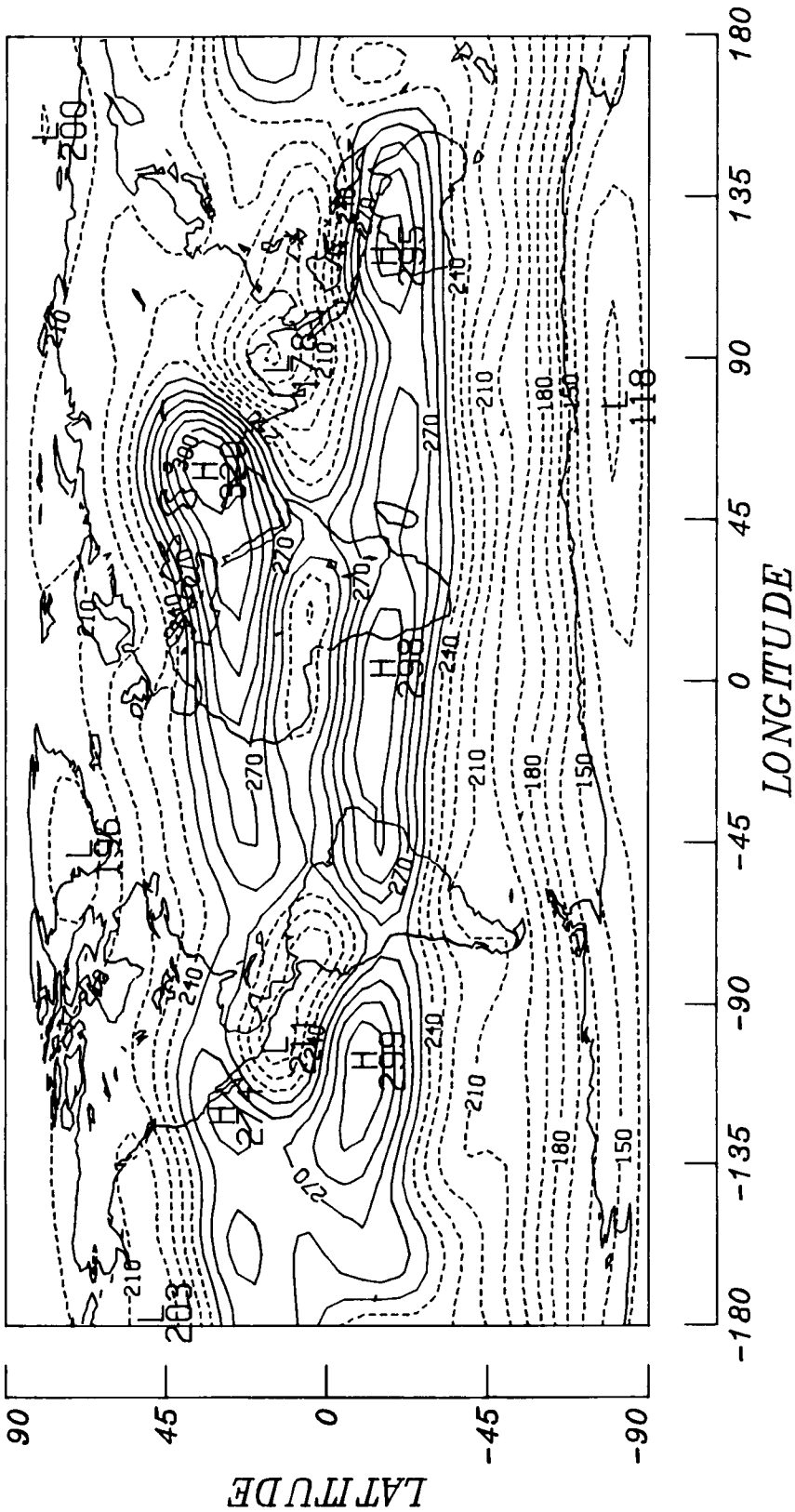
June 1984

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.405 | .216 | .543 | -.989 | -.345 | -.271 | -.424 | .111 | -.741 | -.228 | -.430 | -.488 | .009 |
| 1 | 9.123 | 4.821 | .797 | -.521 | -.205 | .087 | .211 | -.251 | -.052 | .545 | -.040 | .443 | -.247 |
| 2 | -25.121 | 3.596 | 3.932 | .476 | -.043 | .529 | .176 | -.800 | .332 | .991 | .124 | 1.932 | 1.414 |
| 3 | 8.060 | -.369 | 2.537 | .328 | -.991 | .175 | .468 | 1.086 | .074 | .226 | .502 | .590 | -.491 |
| 4 | -6.352 | .652 | -2.647 | -3.262 | -4.066 | .197 | .582 | .459 | -1.169 | -1.229 | -.089 | -.109 | -.652 |
| 5 | -3.731 | -3.298 | -4.383 | -1.768 | -1.700 | -1.187 | .572 | -1.443 | -1.355 | -1.553 | -.901 | -.558 | .453 |
| 6 | 4.845 | -2.806 | -.410 | 2.891 | .395 | -.048 | 1.113 | .457 | .251 | -.368 | -.797 | -.817 | -.032 |
| 7 | 6.442 | 1.577 | 2.799 | .432 | .372 | .648 | 1.684 | .910 | -1.315 | -1.173 | 1.378 | -1.541 | -4.587 |
| 8 | -4.043 | 1.818 | 1.470 | -1.516 | .456 | .332 | .421 | -.685 | -.176 | -1.564 | .296 | .882 | 4.305 |
| 9 | -3.893 | -.743 | -.219 | .397 | .087 | -.489 | .168 | -.024 | -.079 | .478 | .145 | 4.371 | 3.456 |
| 10 | 1.659 | -.218 | -.308 | 1.367 | -.012 | -.169 | -.043 | .711 | -.921 | -.086 | -.341 | 6.039 | -.984 |
| 11 | .471 | .446 | -1.111 | .092 | -.239 | .553 | -.335 | .586 | -.603 | .367 | .433 | -.139 | -1.814 |
| 12 | .453 | .773 | -.053 | -.408 | .895 | -.274 | .638 | .176 | -.218 | -.224 | .158 | .235 | -.134 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

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June 1984

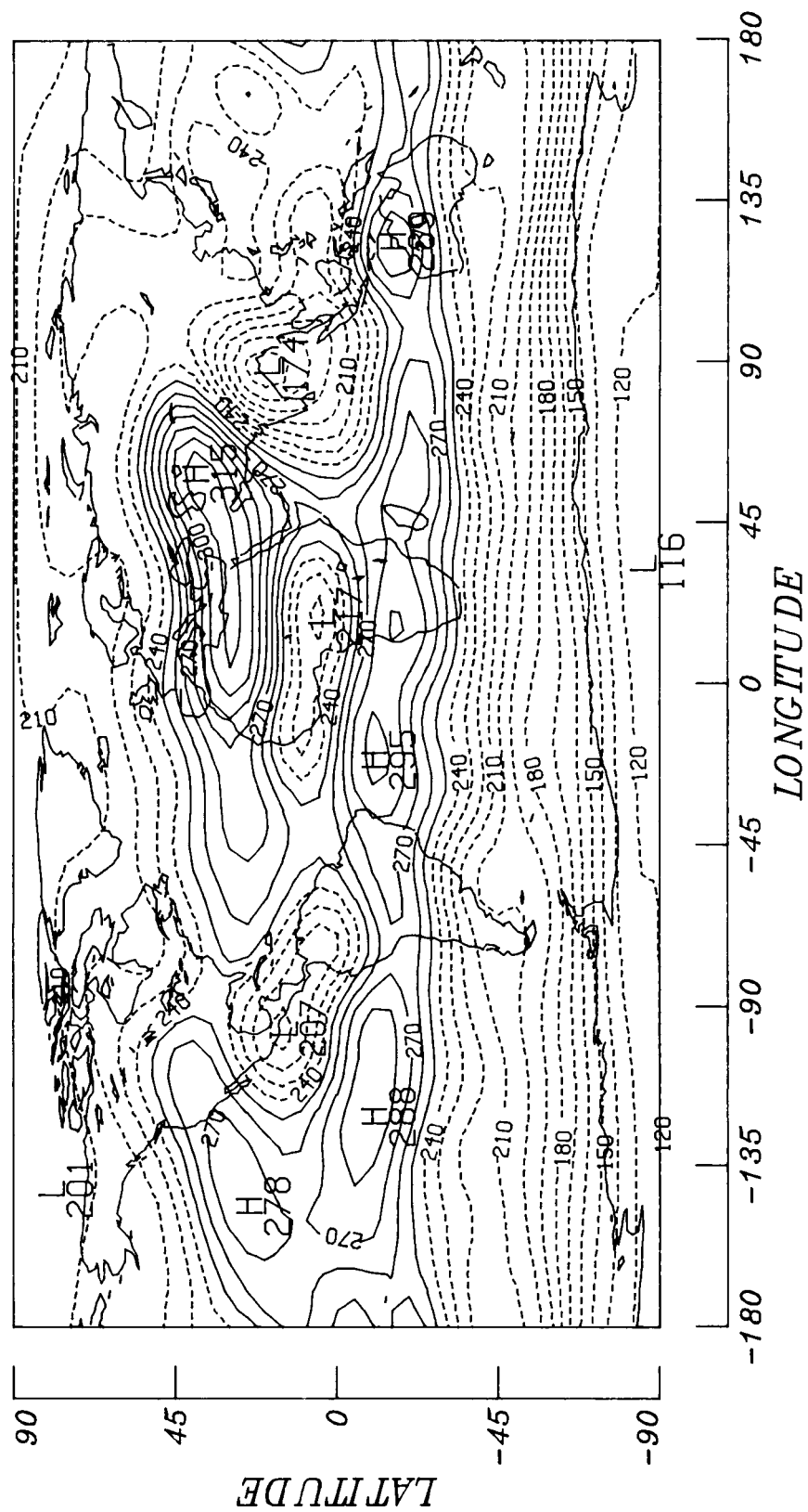


July 1984

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.446 | -.282 | .242 | -.025 | -.666 | -.223 | .208 | .444 | -1.108 | .010 | .452 | -.445 | -.618 |
| 1 | 18.200 | 4.445 | .289 | -.208 | .190 | -.465 | .039 | .073 | .089 | 1.440 | -.041 | .017 | 1.015 |
| 2 | -23.630 | 3.986 | 4.951 | .439 | -.841 | .765 | .316 | .099 | .185 | 1.401 | .465 | 1.283 | 1.456 |
| 3 | 8.907 | .453 | 2.904 | .481 | -.028 | 1.113 | .628 | .723 | -.305 | -.422 | .503 | -.383 | -.125 |
| 4 | -8.154 | .769 | -2.215 | -1.012 | -4.957 | .413 | .364 | .648 | -.533 | -2.147 | -1.002 | -1.064 | -.396 |
| 5 | -4.702 | -3.958 | -3.938 | -.040 | -3.859 | -1.223 | .983 | -.444 | -.306 | -1.913 | -.725 | -.875 | .901 |
| 6 | 3.866 | -2.654 | -1.288 | 1.680 | .141 | .748 | 1.939 | -.140 | -.502 | -.299 | .492 | -.888 | .722 |
| 7 | 7.229 | 2.319 | .321 | .065 | 1.022 | .620 | 1.491 | .774 | -2.415 | .708 | 1.654 | -.279 | -3.340 |
| 8 | -2.679 | 1.549 | 1.023 | -1.092 | .353 | .471 | 1.071 | 1.009 | .041 | -.479 | .288 | 1.133 | 3.626 |
| 9 | -2.768 | .202 | .398 | -.528 | .790 | -.384 | .629 | -.279 | -.021 | .141 | .536 | 3.361 | 3.403 |
| 10 | 1.010 | -.813 | .168 | 2.080 | .154 | -.502 | -.033 | .146 | -.822 | .007 | -.118 | 5.397 | -.624 |
| 11 | -.475 | -.692 | -.935 | .365 | -.630 | .097 | .241 | .829 | -.276 | -.271 | .787 | -.484 | -2.133 |
| 12 | -.250 | 1.451 | -.651 | -1.480 | .251 | -.167 | .737 | .474 | .187 | -.045 | .638 | -.086 | .572 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

July 1984



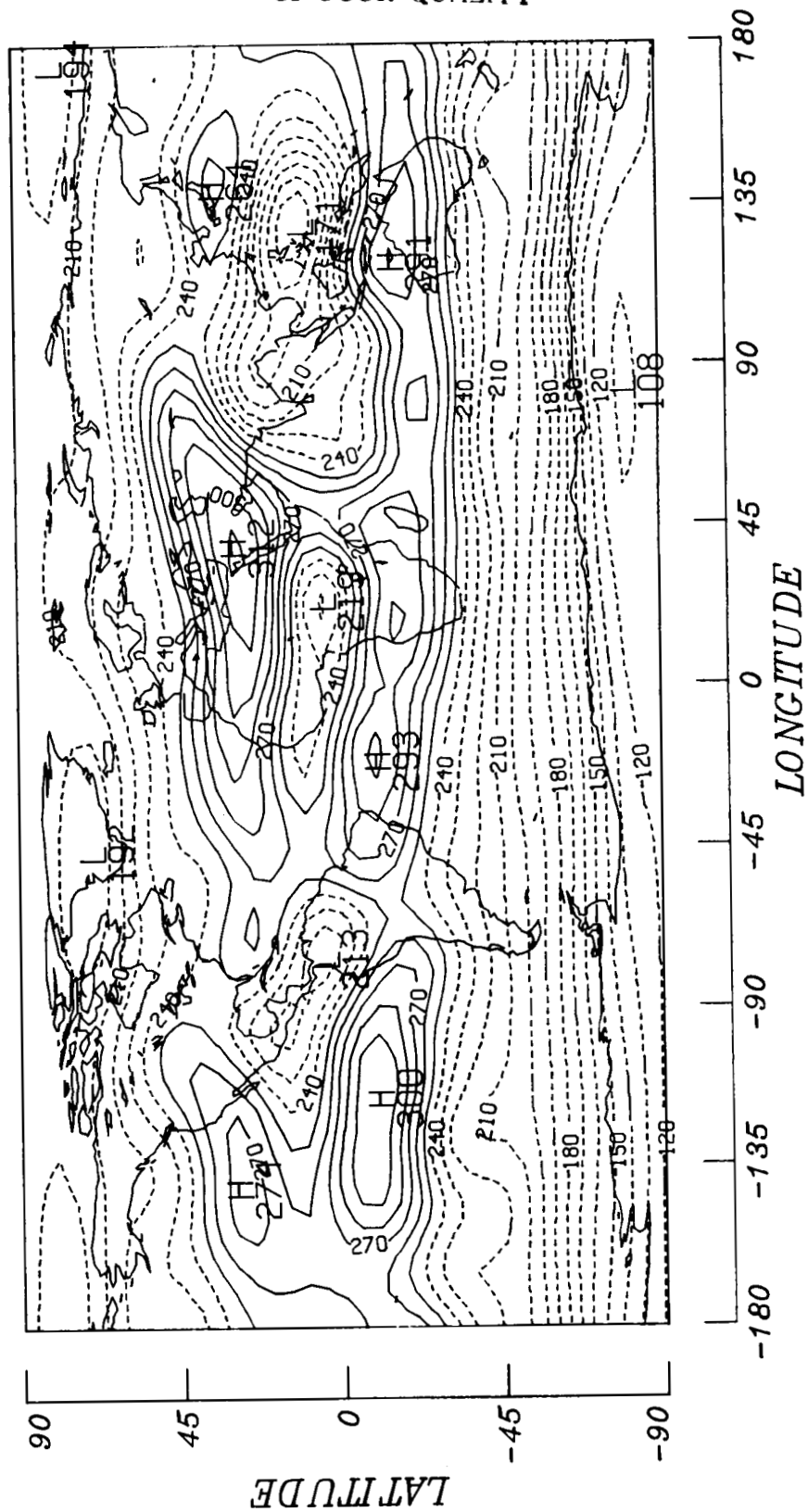
August 1984

| | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|-------|
| 0 | 236.062 | -.010 | .037 | -.669 | -.180 | -.455 | -.173 | .525 | -.168 | -.028 | .444 | -1.230 | 12 |
| 1 | 11.973 | 3.854 | -.034 | -.057 | .468 | -.043 | -.182 | .670 | .814 | 1.228 | .064 | -.504 | 11 |
| 2 | -24.580 | 3.578 | 4.122 | .629 | -.336 | .529 | -.146 | .714 | .765 | .688 | .837 | .314 | 10 |
| 3 | 8.576 | -.215 | 2.705 | -.449 | .254 | 1.021 | -.198 | .441 | -.619 | .198 | 1.516 | -.090 | 9 |
| 4 | -8.975 | -.962 | -1.870 | -1.968 | -2.744 | -.188 | -.441 | .044 | -.907 | -1.587 | -.850 | -.179 | 8 |
| 5 | -5.672 | -2.786 | -3.689 | -.171 | -2.086 | -1.570 | .968 | -.406 | -.373 | -1.557 | -2.001 | .417 | 7 |
| 6 | 2.468 | .076 | -.726 | 2.983 | .081 | .314 | .355 | -1.120 | .076 | .508 | 1.115 | .394 | 6 |
| 7 | 7.596 | 1.556 | .509 | .016 | .139 | 1.535 | .770 | .974 | -.932 | -.529 | 1.772 | -1.148 | 5 |
| 8 | -2.364 | .124 | 1.811 | -2.353 | .512 | .209 | -.291 | 1.029 | .430 | -1.346 | -.573 | -.565 | 4 |
| 9 | -3.377 | -.415 | 1.168 | -.157 | 1.716 | -.885 | -.124 | -.654 | -.483 | .490 | .016 | 3.937 | 3 |
| 10 | .866 | -.038 | -.098 | 2.223 | .503 | -.029 | -.057 | -.365 | -.490 | .153 | -.095 | 6.116 | 2 |
| 11 | .762 | .888 | -1.547 | .805 | -.755 | .185 | -.322 | .492 | -.450 | -.212 | -.035 | -.920 | 1 |
| 12 | .885 | 1.280 | -.258 | -.308 | -.360 | -.483 | -.098 | .453 | .275 | .213 | .711 | .445 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m ORIGINAL PAGE IS
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August 1984



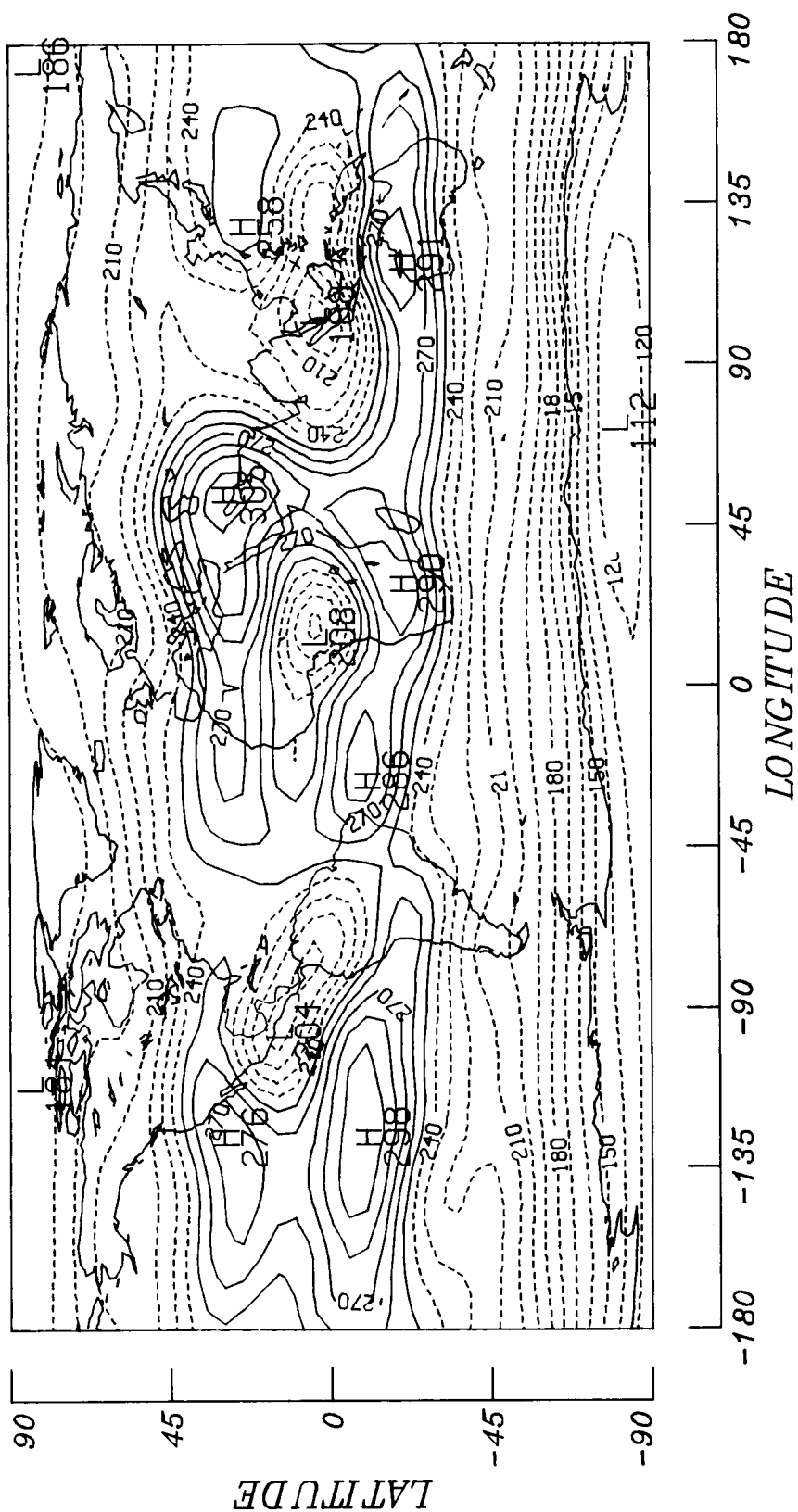
September 1984

| | | | | | | | | | | | | | m/n |
|---------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | m/n |
| 234.296 | 8.534 | 25.774 | 5.877 | 8.407 | 2.876 | 3.479 | 6.834 | 3.475 | 3.012 | 1.298 | 1.236 | 0.042 | |
| .140 | 1.548 | 2.905 | -.107 | -.276 | -.1919 | -.742 | 1.070 | .198 | -.114 | .305 | -.215 | .728 | |
| -.397 | -.654 | 3.872 | 2.397 | -1.167 | -1.998 | 1.097 | .238 | -.170 | .480 | .682 | -1.282 | -.168 | |
| -.476 | -.616 | .284 | -.885 | -1.827 | -.050 | 1.804 | -.550 | -1.147 | .713 | 1.404 | -.501 | -.492 | |
| .033 | -.139 | .265 | -.284 | -4.776 | -3.338 | .197 | .502 | -.182 | .184 | -.129 | -.519 | .804 | |
| -.302 | -.031 | .488 | .644 | -.027 | -.763 | .705 | .356 | -.765 | -1.287 | .038 | .820 | .128 | |
| -.533 | -.187 | -.151 | -.110 | .136 | .241 | 1.199 | .552 | .025 | -.270 | .105 | .393 | .186 | |
| -.391 | -.183 | -.153 | -.273 | .285 | -.265 | -.753 | .617 | .227 | -.749 | -.276 | .922 | .519 | |
| -1.004 | .672 | 1.147 | -1.143 | -1.202 | .725 | -.780 | -2.215 | .218 | .204 | -.931 | .922 | .639 | |
| -.421 | .158 | 1.176 | .383 | -1.661 | -.303 | 1.278 | -1.347 | -3.377 | .570 | .092 | -.113 | .164 | |
| .778 | -.170 | -.121 | .791 | -.938 | -2.450 | 1.309 | 1.256 | -.588 | -.136 | -.329 | -.294 | -.319 | |
| -.428 | -.284 | 1.515 | 1.475 | -.809 | -.725 | .945 | -.428 | -1.801 | 2.998 | 6.371 | .065 | -.002 | |
| -.143 | 1.036 | 1.830 | -2.518 | -.585 | 2.181 | 1.513 | -3.636 | 1.947 | 2.552 | .143 | -.688 | .718 | |
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | |

 C_n^m S_n^m ORIGINAL PAGE IS
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ORIGINAL PAGE IS
OF POOR QUALITY

September 1984



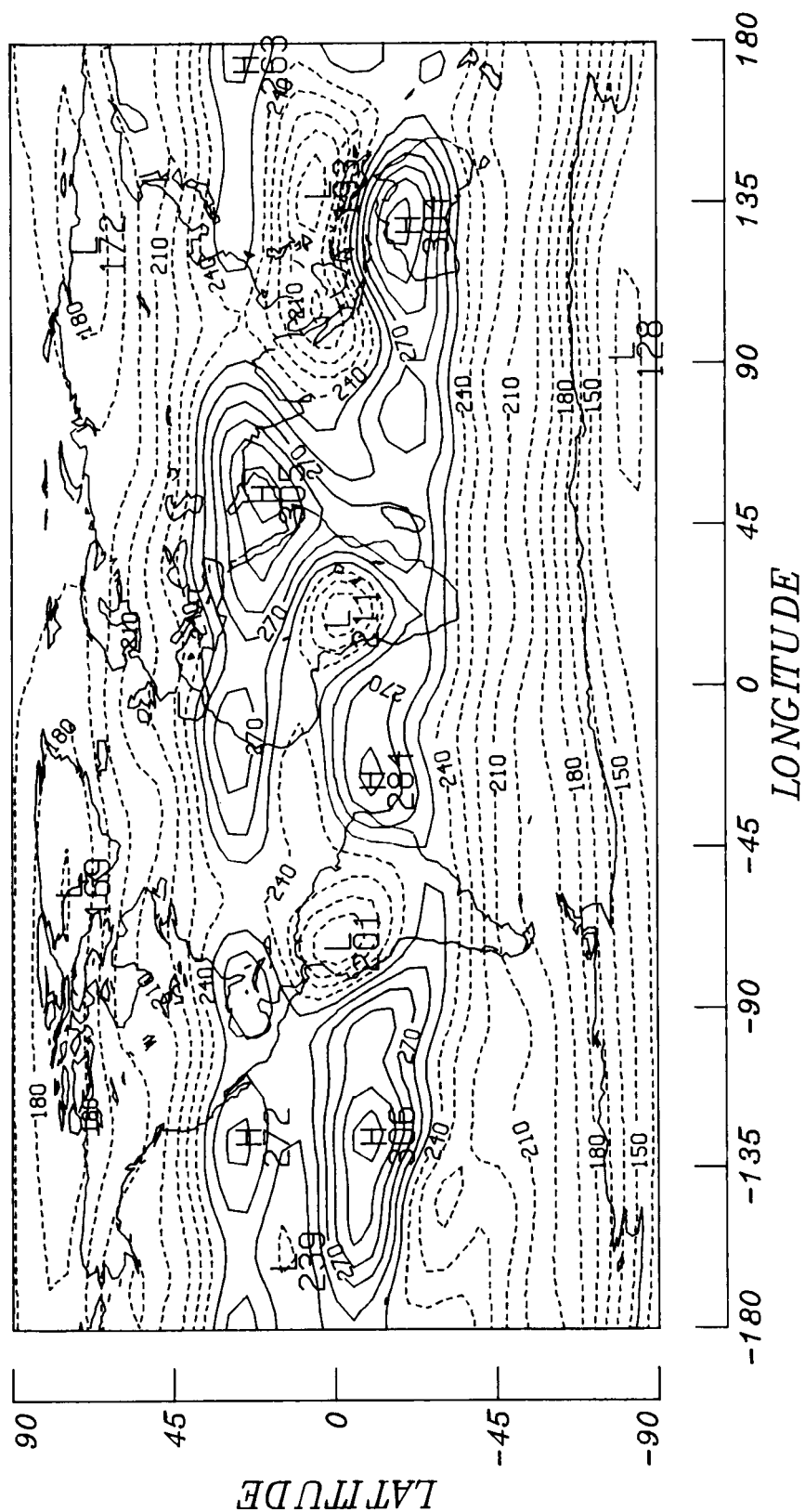
October 1984

| 12 11 10 9 8 7 6 5 4 3 2 1 | | | | | | | | | | | | | | $m \backslash n$ |
|----------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|----|------------------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | |
| 233.232 | -1.141 | -1.028 | -639 | -694 | -771 | -476 | .068 | -1.113 | -.772 | .533 | .384 | -.048 | 12 | |
| 2.578 | 1.644 | 1.001 | -.304 | -.243 | -.434 | .020 | -.042 | .202 | -.294 | -1.032 | -.179 | 1.117 | 11 | |
| -26.294 | 3.396 | .181 | .444 | -.244 | .893 | -.060 | -.213 | 1.057 | .241 | -.863 | .637 | 1.706 | 10 | |
| 2.701 | -.693 | 1.646 | .829 | -.166 | -.169 | .084 | -.440 | -.358 | 1.191 | 1.628 | .658 | -1.468 | 9 | |
| -7.324 | -.489 | .298 | -2.528 | -1.714 | -1.023 | .098 | -.243 | -.906 | -.190 | 1.168 | -.933 | .457 | 8 | |
| -.864 | -1.609 | -.569 | -.700 | -.128 | -1.200 | .465 | -.884 | .814 | -.262 | -1.619 | .944 | 1.865 | 7 | |
| 5.068 | 1.311 | 1.575 | 2.669 | .495 | .219 | .933 | .056 | .311 | 1.614 | -.623 | 2.692 | 1.248 | 6 | |
| 5.143 | 1.028 | .289 | -.257 | -.434 | .797 | .126 | -.379 | -3.526 | -.785 | 1.727 | -2.158 | -3.907 | 5 | |
| -4.357 | -1.284 | -.769 | -2.419 | .369 | .254 | .125 | .172 | 1.809 | -3.594 | .220 | -3.367 | 1.740 | 4 | |
| -2.502 | -.611 | .496 | .147 | .816 | -.260 | -.121 | -1.516 | -.350 | 1.010 | -.214 | 3.292 | .997 | 3 | |
| .887 | 1.240 | .997 | 1.210 | .161 | -.284 | .083 | -.854 | -.264 | -.399 | -.247 | 6.218 | -.397 | 2 | |
| 1.864 | .353 | -1.110 | -.953 | -.137 | .156 | .366 | .566 | .203 | -.178 | -.282 | -.028 | .265 | 1 | |
| 1.356 | -.970 | -.367 | -.217 | .592 | .165 | -.527 | .380 | .077 | .676 | .280 | -.273 | .486 | | |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |

 S_n^m C_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

October 1984



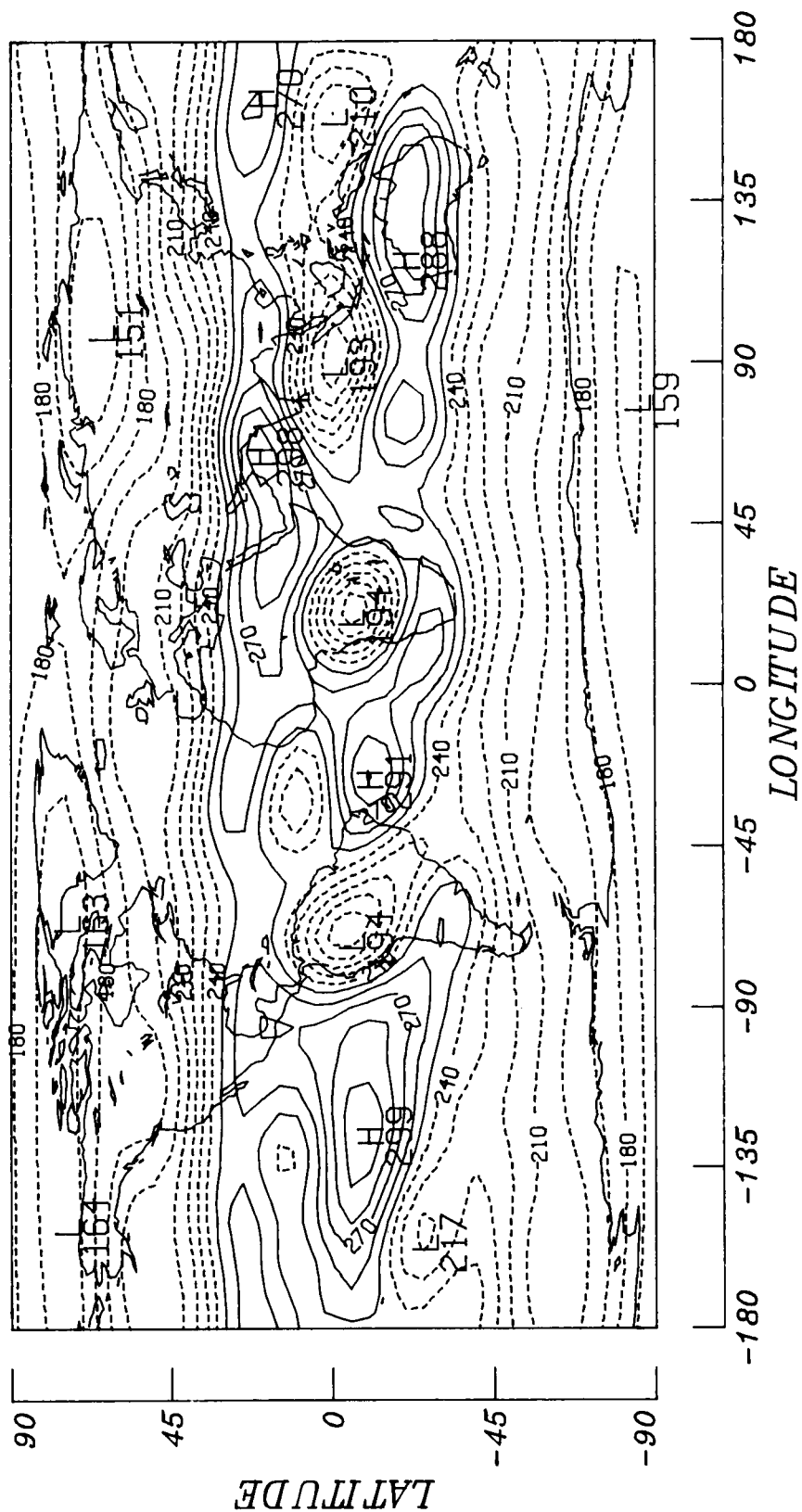
November 1984

| | | | | | | | | | | | | | m/n |
|---------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | n |
| 231.577 | 700 | -330 | .387 | .140 | -.384 | -.114 | -.599 | -.908 | 1.580 | -.151 | -.074 | 12 | |
| -3.828 | .253 | .894 | -1.014 | -.112 | .205 | .051 | -.120 | .305 | -1.134 | -.228 | -.633 | 11 | |
| -26.873 | 1.860 | .648 | .258 | -.080 | .480 | .475 | .171 | .912 | -1.838 | .326 | 2.425 | 10 | |
| -1.090 | -.008 | 1.904 | 2.855 | -.970 | -.551 | .217 | -.089 | -1.117 | .946 | .279 | -2.633 | 9 | |
| -5.102 | .402 | 1.138 | -2.330 | -.819 | -.380 | .320 | .281 | -1.323 | .242 | 2.019 | -.504 | 8 | |
| 2.595 | -.357 | .778 | -1.448 | -.085 | -.686 | .696 | -.134 | 2.012 | -1.773 | -1.204 | 1.190 | 7 | |
| 6.321 | 1.588 | 1.904 | 2.521 | .752 | -.403 | .715 | .649 | .709 | 2.446 | -1.183 | 2.699 | 6 | |
| 1.176 | .827 | .729 | .054 | -1.045 | .964 | -.162 | .759 | -3.670 | .601 | 1.692 | -1.207 | 5 | |
| -4.933 | -1.282 | -.795 | -1.839 | -1.607 | .131 | -.658 | 1.138 | 1.349 | -3.276 | -.324 | -2.926 | 4 | |
| -1.062 | -.503 | .121 | -.017 | .970 | -.716 | -.824 | -1.098 | -.521 | .359 | 1.197 | 1.726 | 3 | |
| 1.798 | .934 | 1.146 | .590 | 1.418 | -.108 | .284 | -.740 | -1.490 | -.553 | .474 | 3.013 | 2 | |
| 2.019 | -.079 | -.723 | -.228 | -.531 | .328 | .400 | .341 | .323 | -.278 | -.252 | -.091 | 1 | |
| 749 | -.915 | -.583 | .730 | -.428 | -.203 | -.275 | .352 | .613 | .703 | .255 | .168 | .418 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

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November 1984

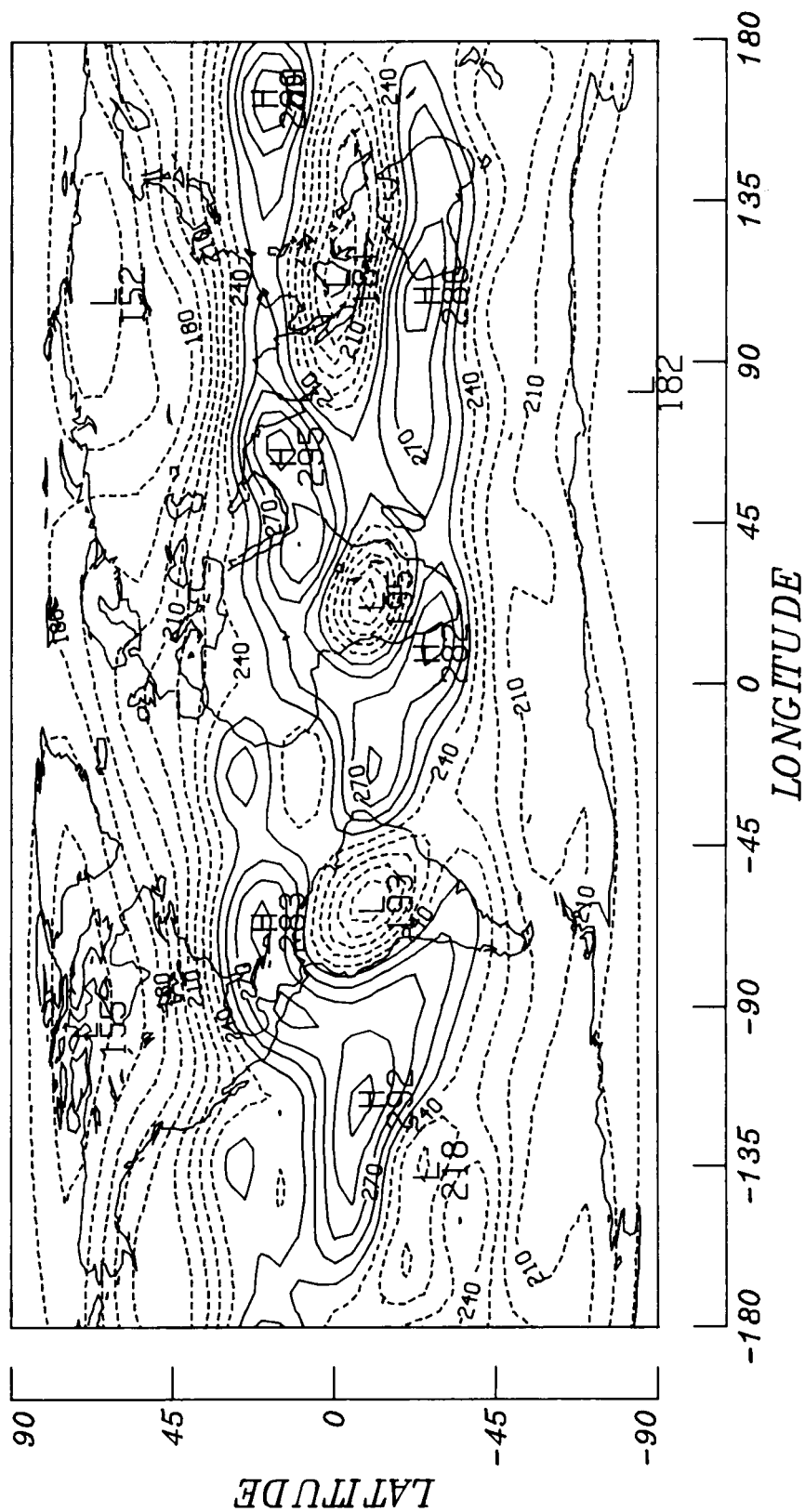


December 1984

| | | | | | | | | | | | | | m/n |
|---------|---------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------|
| 0 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | m/n |
| 229.868 | .274 | .298 | .013 | .254 | -.183 | .096 | -.634 | -.285 | .789 | 2.309 | -.795 | -.921 | 12 |
| 1 | -8.391 | 2.348 | .784 | -.127 | .088 | .730 | -.387 | .836 | .320 | -1.017 | -.057 | 1.116 | 11 |
| 2 | -24.290 | 1.024 | -.292 | -.254 | -.702 | .135 | .113 | .526 | .551 | -.531 | -2.247 | 2.020 | 10 |
| 3 | -2.869 | -.698 | 3.062 | -.365 | .056 | -.766 | .167 | -1.087 | -.523 | 2.114 | .813 | .381 | 9 |
| 4 | -2.917 | 1.312 | 2.682 | -2.973 | 2.013 | -.013 | -.172 | -.489 | -1.131 | -.581 | 2.040 | -2.422 | 8 |
| 5 | 4.293 | .871 | 1.601 | .031 | -2.187 | .980 | 1.454 | -.410 | .812 | -1.905 | -1.429 | .293 | 7 |
| 6 | 6.491 | -1.144 | 2.438 | 3.367 | -.380 | .464 | -.401 | -.640 | .921 | 2.643 | -2.288 | 4.121 | 6 |
| 7 | -2.016 | .310 | .192 | -.097 | .726 | 1.419 | -.042 | .443 | -2.124 | .944 | 1.219 | 1.325 | 5 |
| 8 | -4.043 | -.266 | -1.309 | -1.578 | -1.238 | -.793 | -.001 | -.513 | .830 | -3.892 | .524 | -3.857 | 4 |
| 9 | 1.730 | .510 | -.483 | -.348 | -.139 | .068 | -.132 | -.920 | -.182 | .751 | 1.234 | .291 | 3 |
| 10 | .944 | .753 | 1.558 | .391 | 1.908 | .351 | .150 | -.292 | -1.110 | -.522 | .354 | 3.816 | 2 |
| 11 | .872 | -.780 | -.075 | -.115 | -.122 | -.679 | .395 | -.102 | .209 | -.614 | -.622 | .388 | 1 |
| 12 | .539 | -.753 | -.541 | -.053 | -.607 | .289 | .129 | .557 | .957 | .282 | .048 | 1.082 | .055 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

December 1984



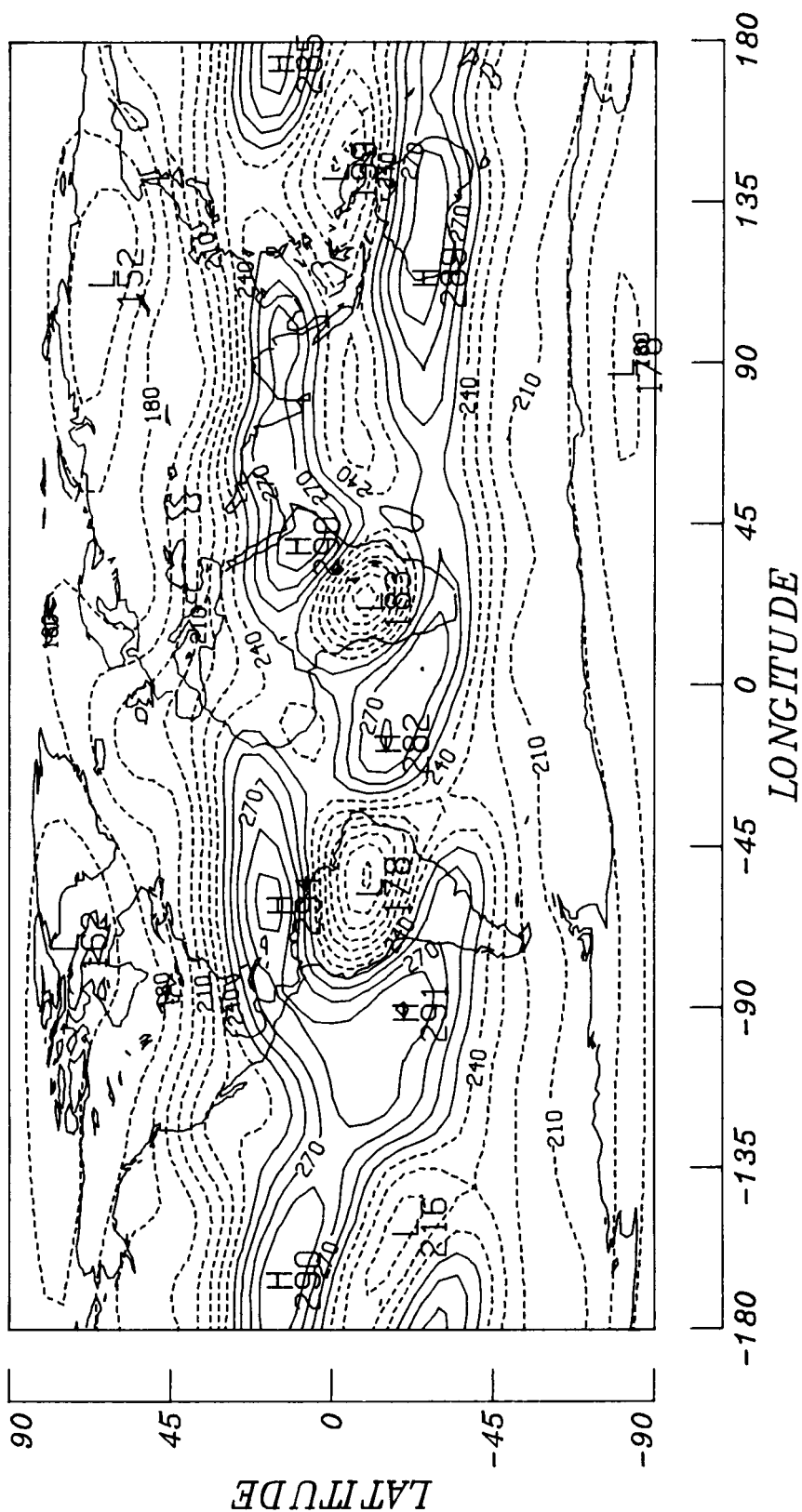
January 1985

| | | | | | | | | | | | | | m/n |
|------------------|---------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 230.020 | .573 | -.591 | -.275 | .152 | .052 | -.246 | -.579 | -.697 | -.014 | .958 | -.476 | .142 |
| 1 | -10.346 | -.551 | 1.232 | -.423 | -.724 | .407 | -.618 | .416 | -.041 | -1.140 | .839 | .140 | .313 |
| 2 | -24.331 | 1.294 | -1.570 | .805 | -.320 | .465 | -.182 | .008 | 1.089 | -.534 | -.843 | 1.553 | 1.845 |
| 3 | -1.406 | .350 | 2.284 | .863 | .520 | -.528 | -.663 | -1.264 | -.559 | 2.285 | .166 | -.026 | -1.274 |
| 4 | -2.301 | .166 | 2.940 | -4.408 | 3.042 | -.042 | .715 | .968 | -1.425 | -.546 | -.026 | -2.552 | -.677 |
| 5 | 6.334 | -.073 | .290 | -1.511 | -2.451 | -1.579 | -.023 | .210 | 1.328 | -3.557 | -2.110 | .216 | 1.612 |
| 6 | 6.703 | .239 | .802 | 5.157 | -.560 | -.479 | .374 | -2.298 | 1.416 | .776 | .194 | 4.138 | .477 |
| 7 | -4.764 | .335 | .749 | .853 | 1.507 | .647 | -.795 | .638 | -3.087 | 1.043 | 1.680 | .209 | -2.070 |
| 8 | -4.461 | .293 | .059 | -3.204 | -.511 | .493 | 1.298 | .006 | .954 | -1.515 | -2.589 | -3.635 | 1.272 |
| 9 | 3.647 | .163 | -.027 | -.786 | .474 | -.356 | .809 | -.770 | -.849 | .742 | .480 | .863 | .134 |
| 10 | 1.087 | -.296 | .897 | .994 | 1.637 | -.090 | -.234 | -.254 | -.692 | -.382 | .218 | 2.237 | -1.516 |
| 11 | -.403 | -.175 | -.259 | .270 | -.281 | .071 | .164 | .499 | -.078 | -.376 | -.167 | .132 | -2.947 |
| 12 | .156 | .097 | -.218 | .537 | -.394 | -.022 | -.217 | .371 | .438 | .175 | -.581 | .926 | .205 |
| $n \backslash m$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

January 1985



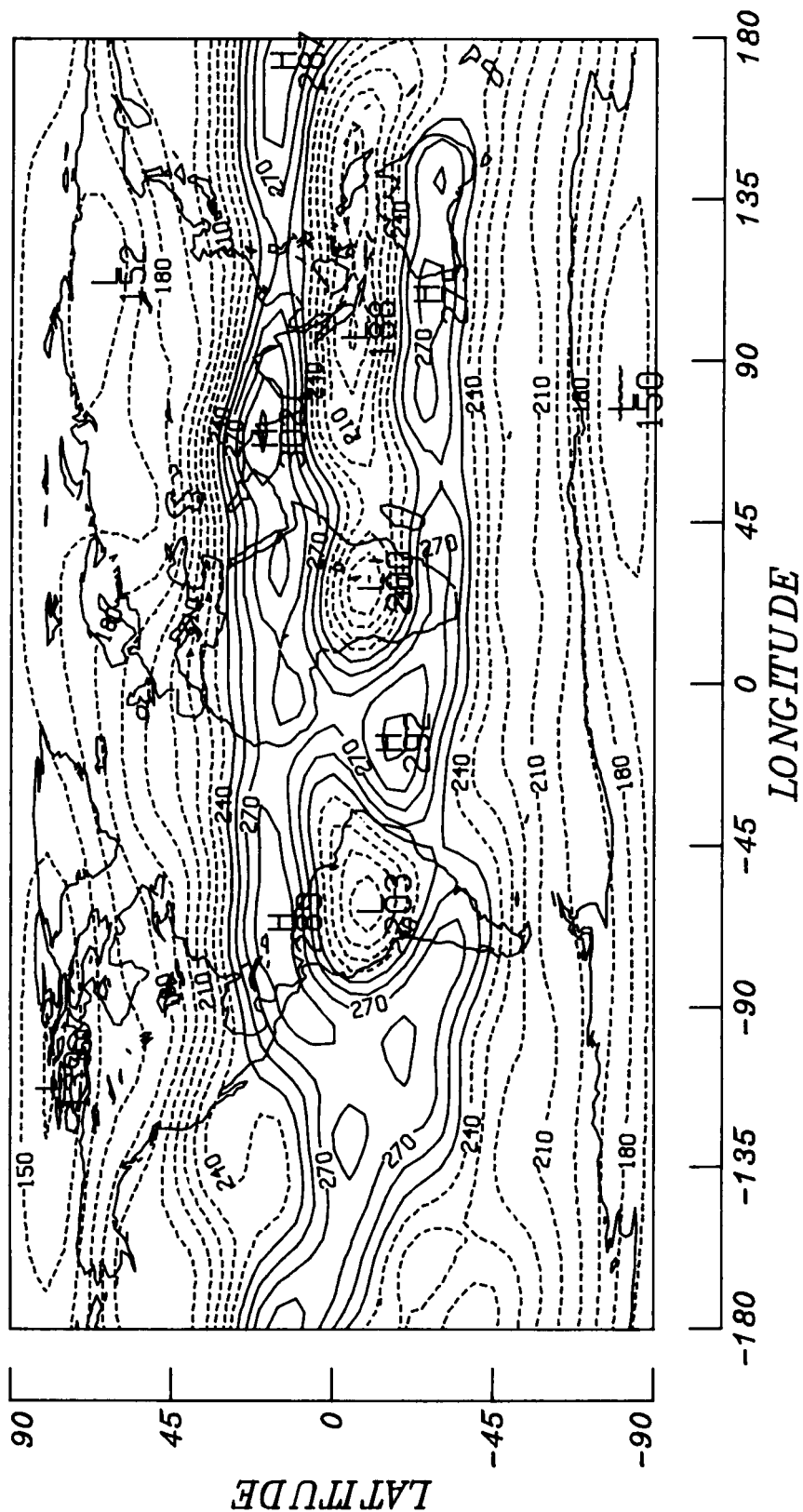
February 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 280.827 | -216 | -306 | -177 | .125 | .286 | -.238 | .453 | -.140 | .283 | .381 | -1.695 | .447 |
| 1 | -9.067 | 3.509 | .184 | -.296 | -.315 | .224 | .068 | -.211 | .045 | -.746 | 1.043 | -.156 | .769 |
| 2 | -27.832 | 1.077 | 1.379 | .480 | .004 | .542 | .785 | -.287 | .728 | -.643 | -1.141 | 1.911 | 2.517 |
| 3 | -2.767 | -.867 | 2.262 | 1.427 | -.389 | -.223 | .017 | -.209 | -.751 | 1.570 | -.111 | 1.352 | -2.299 |
| 4 | -4.719 | .012 | .332 | -3.427 | 2.404 | .102 | .129 | .274 | -.864 | .953 | 1.981 | -1.353 | -1.271 |
| 5 | 2.036 | -1.889 | 1.007 | -.872 | -.839 | .087 | -.247 | .353 | 2.047 | -1.869 | -1.384 | -1.934 | 3.160 |
| 6 | 5.910 | .719 | 3.343 | 4.576 | -.919 | .289 | .596 | -.515 | 1.405 | .224 | -2.611 | 1.837 | 3.953 |
| 7 | -5.259 | 2.500 | -.187 | -.202 | -.209 | 1.224 | .326 | .013 | -2.365 | .203 | .726 | 1.114 | -3.466 |
| 8 | -5.751 | -.187 | -1.190 | -1.987 | .371 | .507 | -.036 | -.089 | 1.183 | -2.521 | .080 | -2.359 | -1.287 |
| 9 | 3.333 | -.926 | .554 | -.232 | .426 | -.231 | -.112 | -.981 | -.484 | .282 | .359 | .259 | 1.986 |
| 10 | 1.649 | .697 | .514 | -.729 | 1.094 | -.153 | .953 | -.241 | -.446 | -.274 | .167 | 2.810 | 1.287 |
| 11 | -.391 | .145 | -.735 | .173 | .018 | -.234 | -.297 | .326 | -.033 | .007 | -.197 | -.248 | -4.713 |
| 12 | .397 | -.310 | .348 | .944 | -.610 | .403 | -.324 | -.182 | .148 | .030 | .905 | .448 | .229 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

February 1985



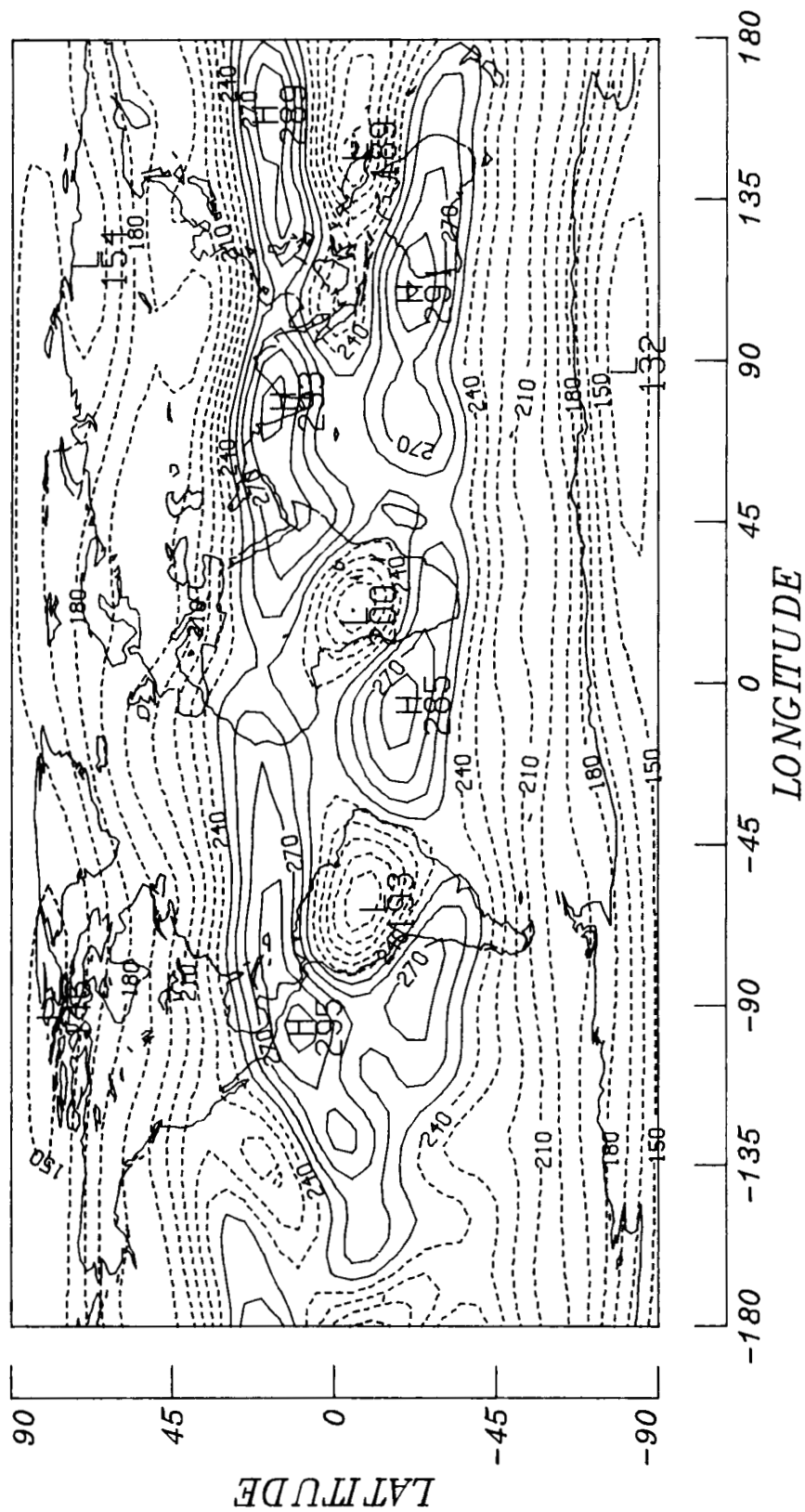
March 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|-------|--------|--------|--------|-------|-------|-------|--------|---------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 229.858 | .089 | -.387 | -.655 | -.469 | -.154 | .071 | -.284 | -.355 | -.018 | .725 | -1.174 | 1.136 |
| 1 | -5.599 | 2.170 | .322 | -.126 | .298 | .625 | -.423 | .201 | .112 | -.207 | .123 | -.343 | .985 |
| 2 | -27.631 | 1.249 | -3.241 | .225 | .199 | -.464 | .165 | -.232 | .772 | -.284 | -2.077 | 2.129 | 1.644 |
| 3 | .120 | -.515 | 1.847 | 1.315 | .077 | -.389 | .427 | -.795 | -.586 | .136 | .706 | 1.814 | -2.844 |
| 4 | -6.152 | 1.142 | 3.606 | -3.312 | 1.581 | -.694 | -.811 | .080 | -1.712 | -.592 | 2.876 | -1.991 | -.638 |
| 5 | 5.658 | -.081 | .323 | -1.526 | -.678 | .347 | -.003 | 1.054 | .899 | -.347 | -1.504 | -1.960 | 1.509 |
| 6 | 4.540 | -.021 | -.356 | 3.913 | .213 | -.535 | -.800 | -.033 | .815 | .951 | -3.048 | 3.634 | 2.525 |
| 7 | -3.786 | 1.143 | -.808 | 1.160 | .199 | 1.210 | .041 | .085 | -3.801 | -.930 | 1.379 | 2.107 | -1.207 |
| 8 | -5.622 | .172 | .463 | -1.665 | -1.172 | .942 | -.388 | -.275 | .557 | -.3.202 | .421 | -2.025 | 1.502 |
| 9 | 2.450 | -.548 | 1.198 | -.490 | -.482 | -.743 | -.141 | -.224 | .336 | 1.562 | -.456 | -.100 | -1.217 |
| 10 | 2.243 | .388 | 1.165 | -.371 | 1.077 | -.636 | .578 | .003 | -1.527 | -.515 | -.781 | 1.802 | -1.209 |
| 11 | .010 | .025 | -.652 | -.591 | .380 | -.064 | .219 | -.175 | .302 | -.333 | -.498 | .364 | -.802 |
| 12 | -.093 | -.121 | -.473 | 1.312 | -.344 | .124 | -.172 | -.288 | .867 | .603 | .995 | -.212 | -.027 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

March 1985



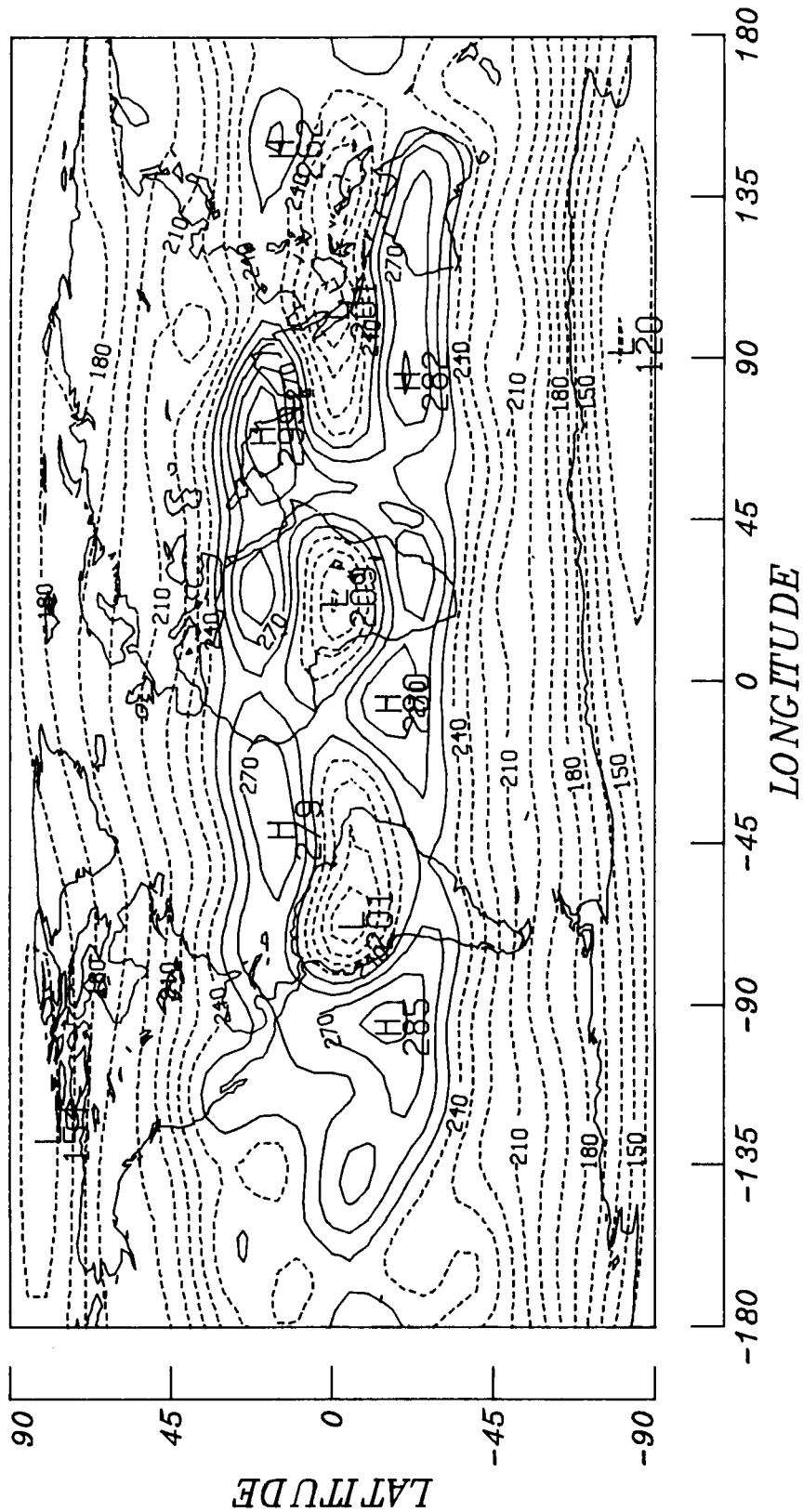
April 1985

| | | | | | | | | | | | | | m/n |
|---------|---------|--------|--------|--------|------|------|--------|--------|--------|--------|--------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 |
| 230.368 | -183 | -226 | -150 | .029 | .161 | -200 | -023 | -728 | -199 | .231 | -750 | 1.177 | 11 |
| 1 | -164 | 3.097 | -303 | -240 | .021 | -517 | .390 | 1.146 | .080 | .068 | -1.091 | 1.348 | 10 |
| 2 | -28.889 | 2.777 | -1.457 | .043 | .397 | .521 | .447 | -597 | .481 | .220 | -248 | 1.199 | 9 |
| 3 | 2.709 | -0.46 | .498 | .166 | -417 | .199 | -1.333 | -707 | -918 | .099 | .457 | 1.458 | 8 |
| 4 | -7.433 | -667 | .167 | -1.902 | .562 | -724 | .123 | 1.133 | -817 | -1.032 | .287 | -866 | 7 |
| 5 | 2.781 | -1.693 | -468 | .185 | -988 | .141 | .815 | .867 | .487 | -051 | -807 | -1.847 | 6 |
| 6 | 4.597 | .930 | 1.658 | 3.119 | -482 | .548 | .202 | -042 | .817 | 1.192 | -039 | 1.457 | 5 |
| 7 | -395 | 2.610 | -063 | -423 | .963 | .323 | -272 | .331 | -2.250 | -822 | .323 | .775 | 4 |
| 8 | -6.013 | -790 | -429 | -1.347 | .098 | -416 | -342 | -213 | .995 | -3.453 | -770 | -1.516 | 3 |
| 9 | .655 | -1.288 | 1.061 | .425 | -616 | -031 | .758 | -1.468 | -1.511 | .184 | .398 | 1.026 | 2 |
| 10 | 2.456 | .924 | .946 | -008 | .472 | .014 | .788 | -261 | -1.407 | .074 | -688 | 3.894 | 1 |
| 11 | -154 | .590 | -757 | -314 | .293 | -159 | -458 | .987 | .479 | .259 | -369 | -854 | |
| 12 | -421 | .879 | -488 | .803 | -423 | .437 | -518 | -248 | .073 | .254 | .650 | -097 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

April 1985

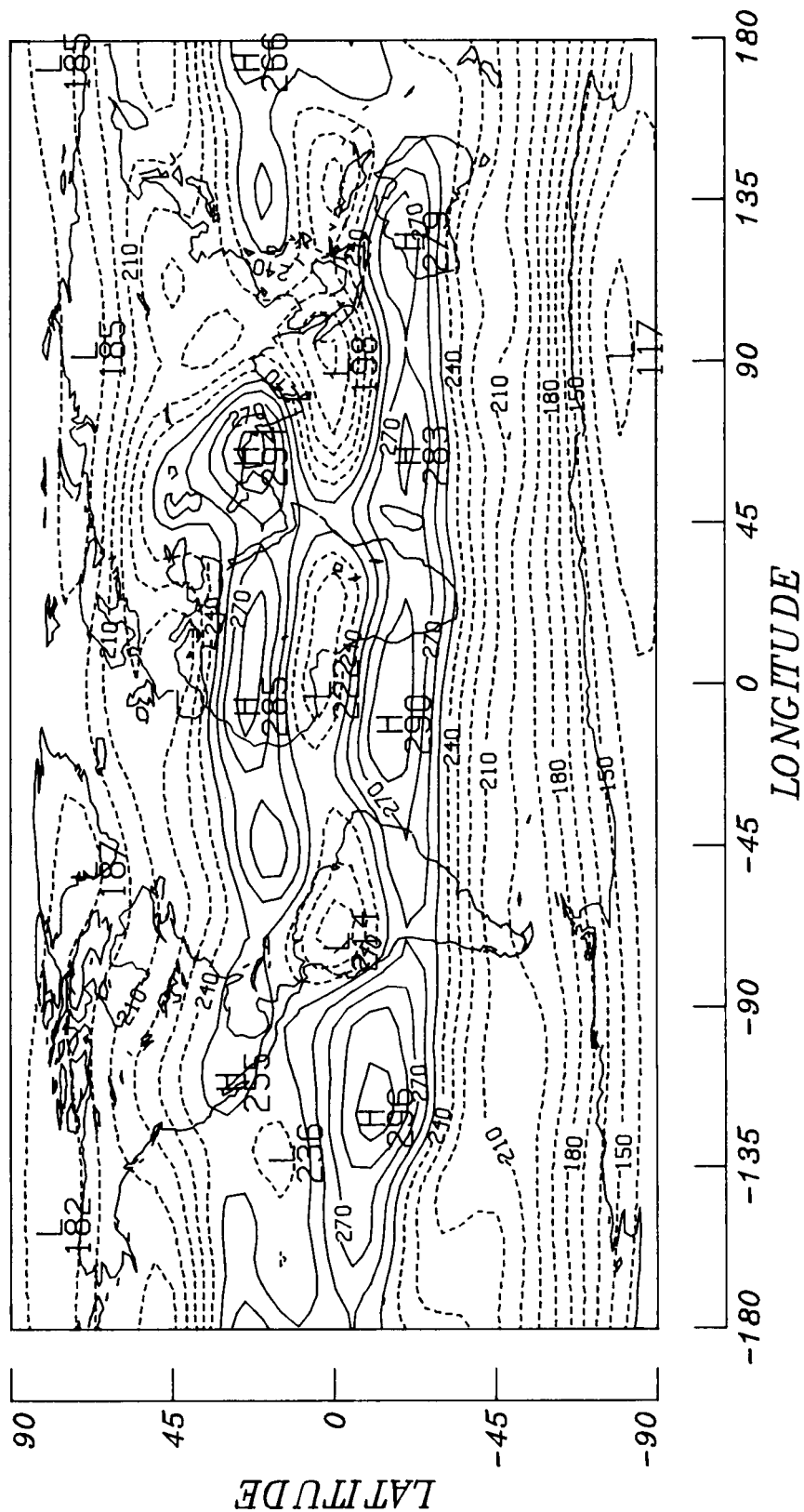


May 1985

| | | | | | | | | | | | | | m/n |
|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 |
| 231.593 | -1.09 | -236 | -764 | -023 | .210 | -.325 | .555 | -.294 | -.250 | -.234 | -.491 | .471 | 12 |
| 5.538 | 2.817 | .596 | -.100 | -.312 | -.020 | .159 | .053 | .239 | -.024 | .247 | -.796 | 1.550 | 11 |
| -26.218 | 1.717 | 1.280 | .007 | -.270 | .099 | .039 | -1.092 | .504 | -.107 | -.577 | .848 | .968 | 10 |
| 5.405 | .201 | .581 | .809 | -.078 | -.401 | .157 | -.582 | -.947 | .527 | .646 | .834 | -2.098 | 9 |
| -6.240 | 1.076 | -1.260 | -1.859 | -1.121 | -.726 | .843 | .788 | -1.160 | .078 | .981 | -1.330 | -.728 | 8 |
| -.804 | -2.764 | -2.122 | -.957 | -.917 | -1.521 | 1.274 | .914 | .162 | -.850 | -.303 | -1.343 | .639 | 7 |
| 4.136 | -.616 | .542 | 2.658 | .218 | .662 | 1.366 | .656 | -.824 | -.454 | -.024 | 1.491 | 1.577 | 6 |
| 3.188 | 3.111 | 1.248 | .803 | -.147 | 1.090 | .372 | .045 | -2.409 | -.798 | .629 | .844 | -4.065 | 5 |
| -5.744 | -.848 | .500 | -1.062 | -.594 | -.436 | .444 | -.248 | .154 | -2.903 | -.145 | -.233 | 1.726 | 4 |
| -1.251 | -2.251 | 1.336 | .248 | -.894 | -1.384 | .664 | -.451 | -.050 | .247 | 1.491 | 1.468 | 1.819 | 3 |
| 3.689 | .912 | 1.045 | .774 | .161 | -.513 | -.250 | .142 | -.657 | -.286 | -.542 | 3.388 | .136 | 2 |
| 1.049 | 1.296 | -1.798 | -.569 | .790 | .435 | -.171 | .705 | -.073 | -.134 | .485 | -.565 | -1.803 | 1 |
| .167 | .338 | -.812 | .061 | .880 | .544 | .243 | -.068 | -.177 | .078 | .475 | -.274 | .067 | |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

May 1985



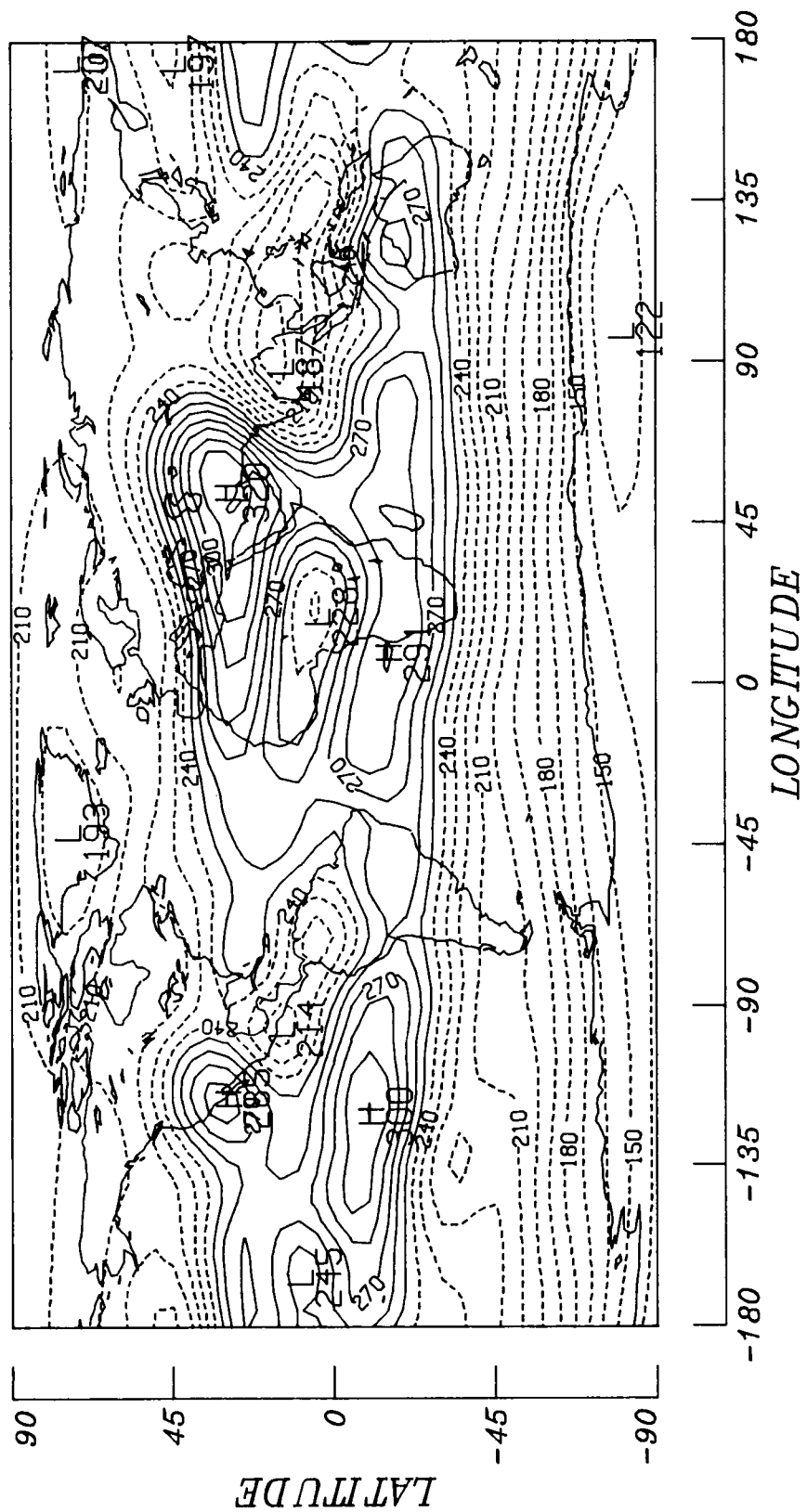
June 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 234.820 | .665 | -.244 | -.633 | -.287 | -.330 | .285 | .237 | .017 | -.044 | -.125 | .074 | -.062 |
| 1 | 8.872 | 5.318 | -.331 | -.846 | -.155 | -.660 | .257 | -.239 | .384 | .365 | -.251 | -.414 | -.392 |
| 2 | -25.384 | 3.341 | 3.333 | .313 | .184 | .724 | -.271 | -.259 | .061 | .375 | .577 | 1.635 | 1.132 |
| 3 | 7.354 | -1.235 | 2.140 | -1.094 | .163 | .961 | -.162 | .947 | -.595 | .184 | 1.687 | 1.474 | -.060 |
| 4 | -5.102 | .448 | -1.944 | -2.363 | -2.937 | .359 | .414 | 1.042 | -.812 | -.578 | -.113 | -.986 | -.454 |
| 5 | -3.168 | -3.524 | -4.560 | -1.057 | -2.561 | -.781 | .639 | -1.136 | .115 | -.635 | -2.204 | -1.573 | .638 |
| 6 | 4.497 | -1.665 | -.606 | 2.922 | -.678 | -.339 | 1.845 | -.207 | -.277 | -.224 | -.416 | -.144 | .190 |
| 7 | 6.343 | 1.788 | 1.877 | .868 | .639 | .114 | 1.479 | .688 | -1.983 | -1.809 | 1.955 | -1.229 | -4.234 |
| 8 | -3.234 | .029 | 1.622 | -1.291 | .251 | .202 | .853 | .513 | -.076 | -.247 | .289 | -.467 | 4.233 |
| 9 | -4.010 | .110 | .685 | -.639 | -.370 | -.668 | .951 | -.231 | -.762 | .413 | .062 | 4.367 | 2.711 |
| 10 | .923 | .681 | -.101 | .530 | -.182 | -.386 | .516 | -.302 | -1.242 | -.164 | -.441 | 8.025 | -.630 |
| 11 | 1.219 | -.652 | -1.576 | .256 | .318 | .802 | -.154 | .597 | -.637 | .468 | .556 | -.859 | -1.157 |
| 12 | .963 | -.684 | -.194 | .593 | 1.372 | .754 | .031 | .605 | -.312 | .462 | .301 | .173 | .690 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

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June 1985



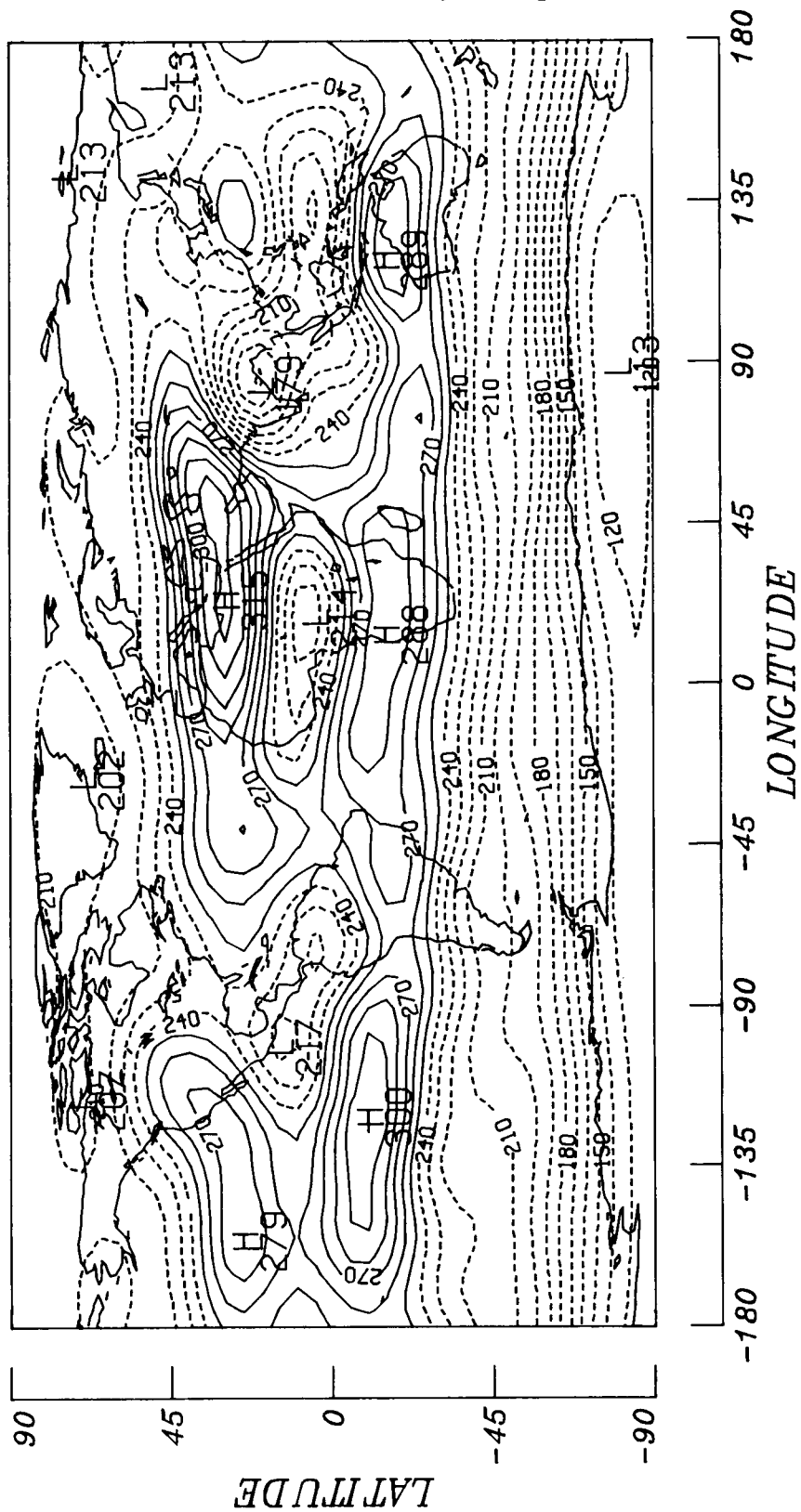
July 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 235.395 | -423 | -431 | -623 | -212 | -128 | -049 | .295 | -693 | -242 | -444 | -190 | -1.016 |
| 1 | 12.311 | 3.793 | .644 | -.331 | .203 | -.331 | -.416 | .049 | -.042 | 1.631 | -.322 | -.095 | .110 |
| 2 | -24.122 | 3.130 | 4.044 | .037 | .332 | .768 | -.544 | .236 | .707 | 1.381 | 1.037 | 1.597 | 1.524 |
| 3 | 9.017 | -.072 | 2.335 | .027 | -.086 | .930 | .233 | 1.203 | .247 | -.455 | 1.262 | 1.109 | .125 |
| 4 | -8.157 | .080 | -1.197 | -1.116 | -4.476 | -.118 | .357 | .789 | -.335 | -1.767 | -.655 | -1.417 | -.723 |
| 5 | -4.477 | -3.497 | -3.425 | .065 | -2.817 | -1.133 | .904 | -.379 | .471 | -.892 | -1.809 | -1.788 | .487 |
| 6 | 4.148 | -1.996 | -1.085 | 2.431 | -.620 | -.607 | 1.319 | .326 | -.624 | .097 | .843 | .984 | .878 |
| 7 | 7.871 | 1.328 | .381 | -.054 | .531 | .211 | 1.568 | .650 | -2.133 | .121 | 2.108 | -.282 | -3.820 |
| 8 | -2.757 | .847 | 1.299 | -1.712 | 1.130 | -.005 | .509 | .452 | .318 | -.618 | -.206 | .208 | 3.646 |
| 9 | -3.245 | .858 | 1.708 | .081 | .986 | -.302 | .688 | .015 | .058 | .671 | -.420 | 3.323 | 3.213 |
| 10 | .917 | .415 | 1.036 | 1.643 | -.516 | -.125 | -.088 | .188 | -.372 | -.058 | -.227 | 5.323 | -.791 |
| 11 | .052 | -.819 | -1.815 | -.570 | -.948 | -.209 | -.483 | .306 | -.157 | -.054 | -.183 | -.377 | -2.319 |
| 12 | .631 | -.151 | -.678 | -1.587 | .516 | -.206 | .686 | .284 | .123 | -.373 | .096 | .255 | -.028 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

ORIGINAL PAGE IS
OF POOR QUALITY

July 1985

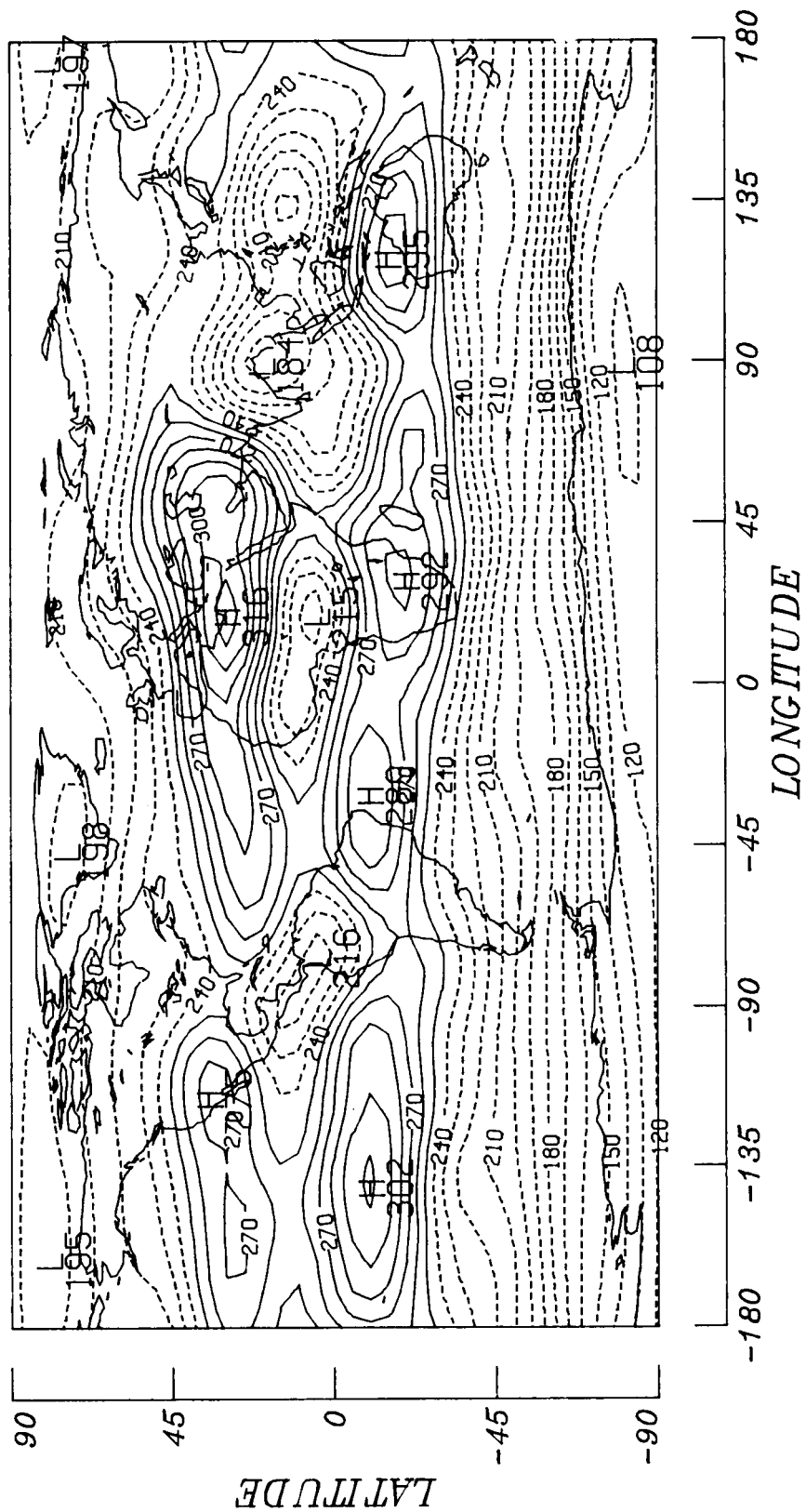


August 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 236.428 | .054 | -.238 | -.382 | -.474 | -.080 | -.388 | .133 | -.301 | -.487 | .199 | .190 | -.662 |
| 1 | 11.633 | 3.244 | .404 | .200 | .131 | .301 | -.765 | -.457 | .352 | 1.023 | .638 | -.304 | -.031 |
| 2 | -24.799 | 3.704 | 4.485 | .638 | .276 | .801 | -.145 | -.085 | .745 | .475 | .286 | .561 | 2.103 |
| 3 | 9.343 | .808 | 2.773 | -.324 | -.404 | .426 | .113 | .603 | -.248 | -.227 | .742 | -.351 | -.637 |
| 4 | -9.847 | -.908 | -1.256 | -1.772 | -4.486 | -.121 | .492 | .221 | -.883 | -.604 | .239 | -.101 | -.144 |
| 5 | -6.119 | -2.211 | -2.740 | -.813 | -1.795 | -2.717 | .901 | -.595 | .166 | -.141 | -1.764 | -.351 | .226 |
| 6 | 4.234 | -.529 | -.628 | 2.980 | -.091 | -.466 | 1.172 | -.004 | .139 | -.089 | .661 | -.711 | -.272 |
| 7 | 7.554 | 1.837 | -.718 | .359 | -.834 | .519 | 1.033 | .921 | -1.220 | -.845 | 3.006 | .058 | -3.528 |
| 8 | -2.706 | .167 | 1.060 | -2.398 | -.079 | .029 | .495 | 1.012 | -.292 | .334 | -.059 | .562 | 4.063 |
| 9 | -3.497 | -.476 | 1.310 | -.789 | .675 | -.445 | -.110 | -.052 | -.772 | .080 | -.403 | 3.349 | 3.845 |
| 10 | .146 | .111 | .816 | .974 | -.508 | .253 | -.436 | .355 | -1.054 | -.251 | .395 | 5.456 | -.972 |
| 11 | .647 | -.235 | -.226 | .769 | -.555 | .349 | -.410 | .686 | -.140 | -.424 | -.060 | -.403 | -3.016 |
| 12 | .855 | 1.340 | -.659 | .502 | .535 | -.456 | .025 | .096 | .629 | -.651 | .145 | -.161 | -.187 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

August 1985

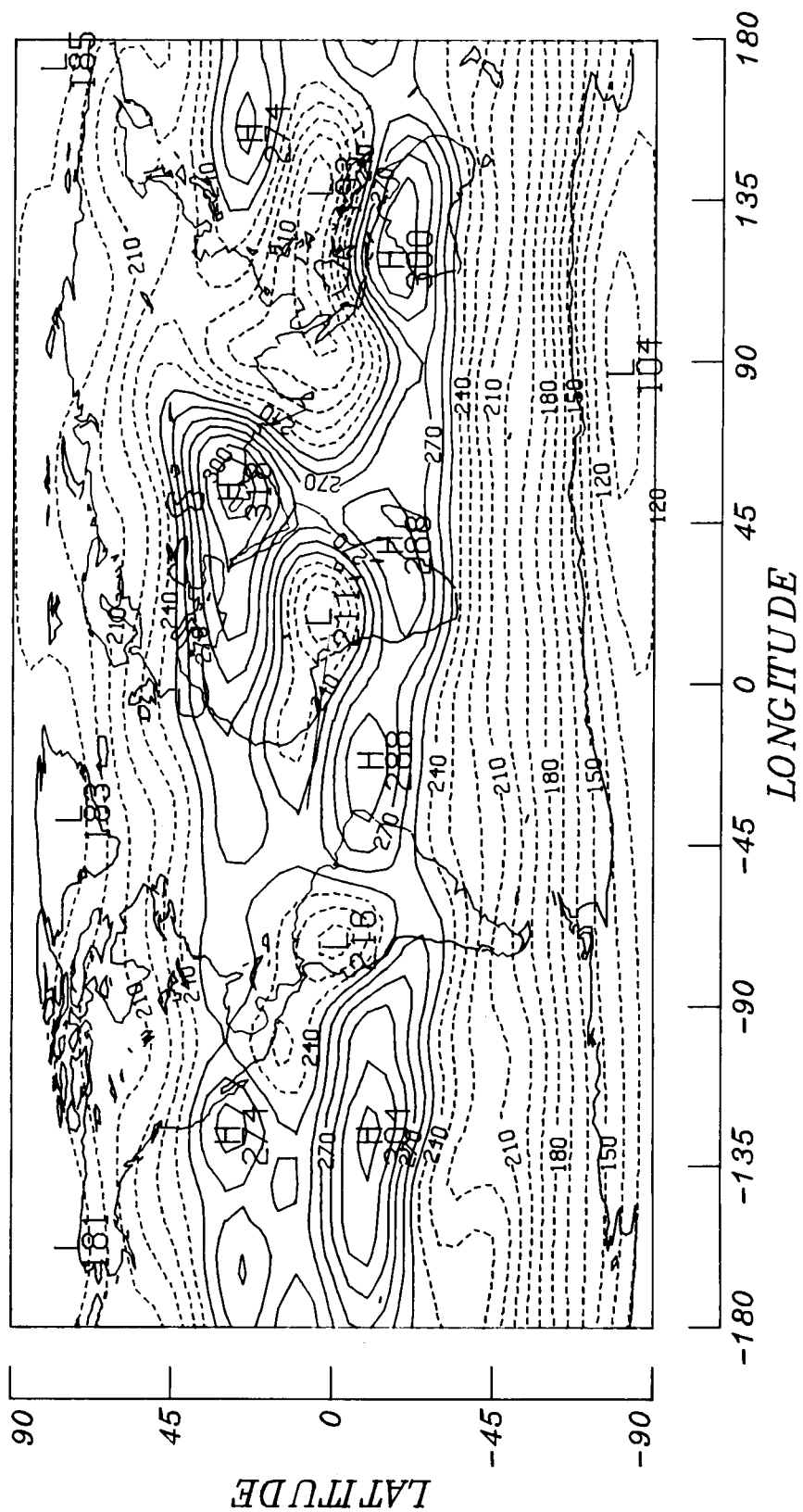


September 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | m/n |
| 0 | 234.821 | .025 | -.218 | -.503 | -.736 | -.623 | -.619 | .228 | -.593 | -.868 | .575 | .036 | .280 |
| 1 | 8.406 | 2.099 | .669 | -.103 | -.369 | -.231 | .093 | -.364 | .709 | -.331 | .521 | .044 | .172 |
| 2 | -27.187 | 3.842 | 3.233 | .098 | .242 | 1.273 | .522 | -.343 | 1.275 | -.171 | .366 | .817 | 1.367 |
| 3 | 7.003 | .138 | 2.473 | -1.121 | -.411 | .758 | -.301 | .111 | -.412 | .361 | 1.950 | .749 | -1.778 |
| 4 | -9.283 | -.616 | -1.004 | -3.204 | -4.083 | .276 | .585 | .795 | -.667 | -.666 | .038 | -.510 | -.054 |
| 5 | -3.914 | -2.013 | -2.536 | -.349 | -1.393 | -1.492 | 1.209 | -.638 | .935 | -.179 | -3.140 | -1.049 | 1.895 |
| 6 | 4.320 | -.528 | .490 | 2.960 | .224 | 1.255 | 1.703 | -.380 | .254 | .633 | -.344 | .429 | .576 |
| 7 | 6.484 | .877 | -.038 | .215 | -.057 | 1.945 | .744 | .822 | -3.202 | -1.574 | 2.097 | -.866 | -4.315 |
| 8 | -3.687 | -.258 | .052 | -1.693 | .523 | .424 | .149 | .667 | .402 | -2.140 | .590 | -1.414 | 3.119 |
| 9 | -3.729 | .971 | 1.073 | .321 | 1.051 | -.200 | .219 | -.738 | -.118 | .810 | .384 | 3.411 | 2.417 |
| 10 | 1.104 | 1.252 | .301 | .706 | .164 | .884 | .067 | -.381 | -1.160 | .193 | -.401 | 5.902 | -.087 |
| 11 | 1.180 | -.373 | -1.877 | -.643 | -.723 | .671 | -.287 | .409 | -.320 | -.149 | -.248 | -.211 | -1.553 |
| 12 | .663 | -.242 | -.113 | -.137 | .018 | -.280 | -.524 | -.130 | .155 | .270 | .105 | .238 | .066 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

September 1985



October 1985

| | | | | | | | | | | | | | m/n |
|-------|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0 | 232.285 | .398 | -.011 | -.381 | -.082 | -.245 | .219 | .128 | -.697 | -.423 | .427 | -.049 | .207 |
| 1 | 2.697 | .813 | .114 | -.242 | .124 | .017 | .388 | .033 | .169 | -.755 | -1.305 | -.406 | 1.396 |
| 2 | -27.416 | 3.471 | 2.959 | .513 | -.414 | .480 | -.367 | -.240 | .967 | .491 | .034 | 1.166 | 1.902 |
| 3 | 2.317 | .005 | 2.678 | .117 | .231 | -.042 | -.053 | -.099 | -1.080 | .866 | 1.454 | .708 | -2.600 |
| 4 | -7.634 | -.084 | -.403 | -1.186 | -1.953 | -.455 | -.061 | .034 | -1.369 | -.638 | .754 | -.766 | -.574 |
| 5 | -.376 | -1.110 | -.748 | -.732 | -.999 | -.485 | .758 | -.431 | 1.577 | .695 | -1.484 | .234 | 3.406 |
| 6 | 3.519 | .651 | 1.884 | 3.010 | .336 | .062 | 1.224 | -.610 | .942 | 1.937 | -.701 | 1.226 | 1.978 |
| 7 | 4.315 | 1.243 | .522 | .628 | .108 | .862 | .712 | .864 | -3.972 | -1.728 | 1.321 | -1.353 | -4.499 |
| 8 | -3.674 | -1.401 | -1.140 | -1.637 | .259 | .272 | .036 | 1.025 | .910 | -3.129 | .314 | -2.241 | 1.437 |
| 9 | -2.873 | -.878 | -.464 | -.509 | .697 | -.582 | .511 | -.287 | -.186 | .857 | .977 | 2.473 | .630 |
| 10 | 1.480 | .930 | .671 | .985 | .791 | .941 | .948 | -.327 | -1.186 | -.726 | -.436 | 5.462 | .369 |
| 11 | 1.719 | -.258 | -1.061 | -.778 | -.451 | .535 | -.045 | .736 | -.111 | -.463 | -.582 | -.023 | .452 |
| 12 | .573 | -.346 | .105 | -.795 | -.410 | -.500 | -.783 | .684 | .635 | .521 | .049 | .222 | .421 |
| n/m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

 C_n^m S_n^m

October 1985

